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Brown University



1902 - 1903

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CATALOGUE

OF

Brown University



ONE HUNDRED AND THIRTY-NINTH YEAR

1902-1903

PROVIDENCE, R. I.
REMINGTON PRINTING COMPANY
1902

Correspondence

Correspondence addressed simply to BROWN UNIVERSITY, PROVIDENCE, RHODE ISLAND, may be expected to reach the proper department, but, in order to avoid delay and possible confusion, correspondents are requested to note the following directions:

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Calendar 1902 - 1903

1902	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	1903	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	1903	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Sept.	7	8	9	10	11	12	13	Jan.	4	5	6	7	8	9	10	May	3	4	5	6	7	8	9
	14	15	16	17	18	19	20		11	12	13	14	15	16	17		10	11	12	13	14	15	16
	21	22	23	24	25	26	27		18	19	20	21	22	23	24		17	18	19	20	21	22	23
	28	29	30	..	..	..	..	Feb.	25	26	27	28	29	30	31		24	25	26	27	28	29	30
Oct.	5	6	7	8	9	10	11		1	2	3	4	5	6	7	June	..	1	2	3	4	5	6
	12	13	14	15	16	17	18		8	9	10	11	12	13	14		7	8	9	10	11	12	13
	19	20	21	22	23	24	25		15	16	17	18	19	20	21		14	15	16	17	18	19	20
	26	27	28	29	30	31	..	Mar.	22	23	24	25	26	27	28		21	22	23	24	25	26	27
Nov.	2	3	4	5	6	7	8		1	2	3	4	5	6	7	Sept.	..	..	1	2	3	4	5
	9	10	11	12	13	14	15		8	9	10	11	12	13	14		6	7	8	9	10	11	12
	16	17	18	19	20	21	22		15	16	17	18	19	20	21		13	14	15	16	17	18	19
	23	24	25	26	27	28	29		22	23	24	25	26	27	28		20	21	22	23	24	25	26
	30	..	..	..	..	..	..	Apr.	29	30	31	..	..	..	..		27	28	29	30	..	..	..
Dec.	7	8	9	10	11	12	13		5	6	7	8	9	10	11	Oct.	..	..	..	..	1	2	3
	14	15	16	17	18	19	20		12	13	14	15	16	17	18		4	5	6	7	8	9	10
	21	22	23	24	25	26	27		19	20	21	22	23	24	25		11	12	13	14	15	16	17
	28	29	30	31	..	..	..		26	27	28	29	30	..	..		18	19	20	21	22	23	24
																	25	26	27	28	29	30	31

Vacations and holidays are indicated by lighter type.

University Calendar 1902-1903

1902.

September 3. *Wednesday.* Annual Meeting of the Corporation
(first Wednesday in September).

September 12, 13, 15, 16. *Friday, Saturday, Monday and Tuesday.*
Examinations for admission to the Freshman Class
and to Advanced Standing.

September 16. Tuesday. Last day for registration of Undergraduate Students.

September 17. Wednesday. ACADEMIC YEAR BEGINS: 8:40 A. M.

September 17. Wednesday. Last day for registration of Resident Graduate Students.

September 27. Saturday. Examination in Greek for the President's Premiums.

October 1. Wednesday. Last day for registration of Non-resident Graduate Students.

October 1. *Wednesday.* Examinations in Latin for the President's
 Premiums.

October 4. Saturday. Examination in Mathematics for the
Hartshorn Premiums.

October 8. *Wednesday.* Examination in French for the President's
 Premiums.

November 27-29. Thursday, Friday and Saturday.

THANKSGIVING RECESS.

December 17-23. Wednesday to Tuesday. Term Examinations.

December 24, 1902, to January 5, 1903. Wednesday to Monday inclusive.

CHRISTMAS RECESS.

1903.

- January 5.* *Monday.* Last day for registration of Undergraduate Students.
- January 6.* *Tuesday.* SECOND TERM BEGINS: 8.40 A. M.
- February 23.* *Monday.* Observed as Washington's Birthday. No University exercises.
- March 14-20.* *Saturday to Friday.* Term Examinations.
- March 21-30.* *Saturday to Monday inclusive.*
SPRING RECESS.
- March 30.* *Monday.* Last day for registration of Undergraduate Students.
- March 31.* *Tuesday.* THIRD TERM BEGINS: 8.40 A. M.
- March 31.* *Tuesday.* Last day for receiving theses of candidates for the Doctorate.
- May 29.* *Friday.* Last day for examinations for Advanced Degrees.
- May 30.* *Saturday.* Memorial Day. No University exercises.
- June 4-10.* *Thursday to Wednesday.* Term Examinations.
- June 11.* *Thursday.* Hicks Prize Debate: Manning Hall, 8.00 P. M.
- June 12.* *Friday.* Class Day.
- June 14.* *Sunday.* Baccalaureate Sermon: First Baptist Meeting House, 4.00 P. M.
- June 15.* *Monday.* Ivy Day: Pembroke Hall.
- June 15.* *Monday.* Sophomore Prize Declamation: First Baptist Meeting House, 8.00 P. M.

- June 16.* *Tuesday.* Annual Meeting of the Phi Beta Kappa Society: 5 University Hall, 9.30 A. M.
- June 16.* *Tuesday.* Annual Meeting of the Alumni, Manning Hall.
- June 17.* *Wednesday.* ONE HUNDRED AND THIRTY-FIFTH ANNUAL COMMENCEMENT (third Wednesday in June): First Baptist Meeting House, 10.00 A. M.
- June 18.* *Thursday.* Meeting of the Corporation.
- June 18-22.* *Thursday, Friday, Saturday and Monday.* Examinations for Admission to the Freshman Class and to Advanced Standing.

SUMMER VACATION.

- September 2.* *Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).
- September 11-15.* *Friday, Saturday, Monday and Tuesday.* Examinations for admission to the Freshman Class and to Advanced Standing.
- September 15.* *Tuesday.* Last day for registration of Undergraduate Students.
- September 16.* *Wednesday.* ACADEMIC YEAR BEGINS: 8.40 A. M.

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† On leave of absence during the academic year 1902-03.

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<i>Assistant in the Carpenter Shop</i>	
JOHN EDWARDS	145 Doyle Avenue
<i>Assistant in the Ladd Observatory</i>	

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President

WILLIAM HERBERT PERRY FAUNCE, D. D.

7 Administration Building: 11.30 A. M. to 12.30 P. M. Tuesday,
Wednesday, Thursday and Friday

Dean

ALEXANDER MEIKLEJOHN, Ph. D.

5 Administration Building: 12.15 to 1.15 P. M.

Registrar

FREDERICK TAFT GUILD, A. M.

4 Administration Building: 8.30 A. M. to 1 P. M., 2.30 to 4 P. M.

Dean of the Women's College

ANNIE CROSBY EMERY, Ph. D.

Pembroke Hall, Meeting Street: 11 A. M. to 12 M.

Librarian

HARRY LYMAN KOOPMAN, A. M.

Library: 9 to 10 A. M., 3 to 4 P. M.

Committee on Graduate Students

CARL BARUS, Ph. D., Chairman.

Wilson Hall 5: 11 A. M. to 12 M.

ASA CLINTON CROWELL, Ph. D., Secretary.

6 Sayles Hall: 4 to 5 P. M. Monday and Thursday; 11 A. M. to 12 M.
Saturday.

Committee on Absences

JAMES QUAYLE DEALEY, Ph. D., Chairman.

9 Administration Building: 1.10 to 1.55 P. M. Tuesday and Thursday.

Committee on Registration of Teachers

WALTER BALLOU JACOBS, A. M., Secretary.

10 Administration Building: 1 to 2 P. M. Monday, Wednesday and
Friday; 10 to 11 A. M. Saturday.

Steward

ARCHIBALD GRANT DELANEY.

1 University Hall: 12 M. to 1 P. M.

Admission to the University

REQUIREMENTS FOR ADMISSION TO THE FRESHMAN CLASS

The courses of study in college leading to the degrees of Bachelor of Arts, Bachelor of Philosophy and Bachelor of Science in either Civil, Mechanical or Electrical Engineering demand proficiency in certain preparatory studies prescribed for each course. The full list of studies, with a detailed statement of the requirement in each, is given on pages 27-35.

The changes in the requirements for admission, of which notice has been given in previous issues of this Catalogue, have either gone into effect already or will be in effect at the beginning of the next academic year. The requirements specified below are those which will be in force, beginning in June 1903.

REQUIREMENTS FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

The subjects are arranged in three groups, the figures in parenthesis in Groups II and III indicating the value in points assigned to each subject. For the amount required, reference is made to the paragraphs on pages 27-35 giving details of the requirements.

In Group I all subjects must be presented.

In Group II subjects aggregating 6 points, including at least 3 points in ancient language and at least 1 point in modern language, must be presented.

In Group III one subject may be presented, but students who present no subject in Group III must present subjects aggregating 7 points in Group II.

GROUP I.

English.....	See I,	page 27
Algebra.. . . .	“ II,	“ 28
Geometry.....	“ III,	“ 29
Ancient History.. . . .	“ XIV, 1,	“ 32

GROUP II.

Ancient Language

Latin (elementary and advanced) (3)	See VI, VII,	pages 29, 30
Greek (elementary) (2)	" VIII,	page 30
Greek (advanced) (1)	" IX,	" 30

Modern Language

French (elementary) (1)	See X,	" 30
French (advanced) (1)	" XI,	" 31
German (elementary) (1)	" XII,	" 31
German (advanced) (1)	" XIII,	" 32

GROUP III.

Solid Geometry and Plane Trigonometry (1)

	See IV, V,	page 29
English and American History (1)	" XIV, 2,	" 33
Physics (1)	" XV,	" 33
Chemistry (1)	" XVI,	" 33

REQUIREMENTS FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

The subjects are arranged in three groups, the figures in parenthesis in Groups II and III indicating the value in points assigned to each subject. For the amount required, reference is made to the paragraphs on pages 27-35 giving details of the requirements.

In Group I all subjects must be presented.

In Group II two or more languages are required, aggregating from 3 to 7 points.

In Group III free selection is allowed to complete the 7 points.

GROUP I.

English	See I,	page 27
Algebra	" II,	" 28
Geometry	" III,	" 29
Ancient History	" XIV, 1,	" 32
or		
English and American History	" XIV, 2,	" 33

GROUP II.

Latin (elementary)	(2)	See VI,	page 29
Latin (advanced)	(1)	“ VII,	“ 30
Greek (elementary)	(2)	“ VIII,	“ 30
Greek (advanced)	(1)	“ IX,	“ 30
French (elementary)	(1)	“ X,	“ 30
French (advanced)	(1)	“ XI,	“ 31
German (elementary)	(1)	“ XII,	“ 31
German (advanced)	(1)	“ XIII,	“ 32

GROUP III.

Solid Geometry and Plane Trigonometry	(1)	See IV, V,	page 29
History (the History not presented as a required subject)	(1)		
		See XIV, 1 or 2,	pages 32, 33
Physics	(1)	“ XV,	page 33
Chemistry	(1)	“ XVI,	“ 33
Astronomy	(1)	“ XVII,	“ 34
Physiography	(1)	“ XVIII,	“ 34

REQUIREMENTS FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING, MECHANICAL ENGINEERING OR ELECTRICAL ENGINEERING

The subjects are arranged in two groups. For the amount required, reference is made to the paragraphs on pages 27-35 giving details of the requirements.

In Group I all subjects must be presented.

In Group II two subjects must be presented.

GROUP I.

English.....	See I,	page 27
Algebra.....	“ II,	“ 28
Plane Geometry	“ III,	“ 29
Solid and Spherical Geometry	“ IV,	“ 29
Freehand Drawing	“ XIX,	“ 34

GROUP II.

French (elementary).....	See X,	page 30
German (elementary)	“ XII,	“ 31
Chemistry	“ XVI,	“ 33

METHODS OF ADMISSION TO THE FRESHMAN CLASS

1. BY EXAMINATION

The regular examinations for admission to the FRESHMAN CLASS take place in Wilson Hall on Thursday, Friday, Saturday and Monday, June 18, 19, 20 and 22, 1903, beginning at 8 o'clock A. M. on Thursday. Candidates must present themselves promptly at the appointed times.

The order of the examinations will be:

THURSDAY, JUNE 18

Algebra, Wilson Hall 27, 8 A. M. to 10 A. M.

Plane Geometry, Wilson Hall 27, 10 A. M. to 12 M.

Elementary French, Wilson Hall 2, 1 P. M. to 3 P. M.

Advanced French, Wilson Hall 2, 4 P. M. to 6 P. M.

FRIDAY, JUNE 19

Elementary Greek, Wilson Hall 2, 8 A. M. to 10 A. M.

Astronomy, Wilson Hall 25, 8 A. M. to 10 A. M.

Advanced Greek, Wilson Hall 2, 10 A. M. to 11.30 A. M.

Physiography, Wilson Hall 25, 10 A. M. to 12 M.

Latin, Wilson Hall 25, 12.30 P. M. to 4 P. M.

Freehand Drawing, Wilson Hall 2, 2 P. M. to 4 P. M.

English and American History, Wilson Hall 27, 4 P. M. to 6 P. M.

SATURDAY, JUNE 20

English, Wilson Hall 26, 8 A. M. to 10 A. M.

Chemistry, Wilson Hall 2, 11 A. M. to 1 P. M.

Solid Geometry, Wilson Hall 27, 2 P. M. to 4 P. M.

Plane Trigonometry, Wilson Hall 27, 4 P. M. to 6 P. M.

MONDAY, JUNE 22

Elementary German, Wilson Hall 2, 8 A. M. to 10 A. M.

Advanced German, Wilson Hall 2, 10 A. M. to 12 M.

Ancient History, Wilson Hall, 25, 1 P. M. to 3 P. M.

Physics, Wilson Hall 1, 4 P. M. to 6 P. M.

A second examination in each of the above branches will be offered on Friday, Saturday, Monday and Tuesday, September 11, 12, 14 and 15, 1903, as follows:

FRIDAY, SEPTEMBER 11

Algebra, Wilson Hall, 27, 8 A. M. to 10 A. M.

Geometry, Wilson Hall 27, 10 A. M. to 12 M.

Elementary French, Wilson Hall 2, 1 P. M. to 3 P. M.

Advanced French, Wilson Hall 2, 4 P. M. to 6 P. M.

SATURDAY, SEPTEMBER 12

Elementary Greek, Wilson Hall 2, 8 A. M. to 10 A. M.

Astronomy, Wilson Hall 25, 8 A. M. to 10 A. M.

Advanced Greek, Wilson Hall 2, 10 A. M. to 11.30 A. M.

Physiography, Wilson Hall 25, 10 A. M. to 12 M.

Latin, Wilson Hall 25, 12.30 P. M. to 4 P. M.

Freehand Drawing, Wilson Hall 2, 2 P. M. to 4 P. M.

English and American History, Wilson Hall 27, 4 P. M. to 6 P. M.

MONDAY, SEPTEMBER 14

English, Wilson Hall 26, 8 A. M. to 10 A. M.

Chemistry, Wilson Hall 2, 11 A. M. to 1 P. M.

Solid Geometry, Wilson Hall 27, 2 P. M. to 4 P. M.

Plane Trigonometry, Wilson Hall 27, 4 P. M. to 6 P. M.

TUESDAY, SEPTEMBER 15

Elementary German, Wilson Hall 2, 8 A. M. to 10 A. M.

Advanced German, Wilson Hall 2, 10 A. M. to 12 M.

Ancient History, Wilson Hall 25, 1 P. M. to 3 P. M.

Physics, Wilson Hall 1, 4 P. M. to 6 P. M.

If desired, examinations will be appointed in cities remote from Providence. Correspondence on this subject should be addressed to the Registrar of the University, and sent at least four weeks before the time of the examinations.

2. BY CERTIFICATE

In place of examinations, students are admitted by the certificates of the principals of those schools to which this privilege has been given. The requirement of examination in Advanced French, Advanced German, English and American History, Solid Geometry and Plane Trigonometry, Physics, Chemistry, Physiography and Astronomy, previously in force, is now removed, and certificates are accepted in these subjects as well as in all others required for admission to the Freshman Class. But if any candidate offers subjects in the above list, in excess of the amount required for admission to the Freshman Class, in order to secure advanced standing in the University, examination will be required in the subjects thus offered.

In order to obtain the privilege of certification the principal of the school should make application to the Dean of the University, and should furnish satisfactory evidence that the course of study in the school meets the requirements for admission.

Blank forms for certification may be obtained from the Registrar.

When a student has attended more than one school, a letter of recommendation from the principal of the institution last attended should accompany the certificate.

Application for the privilege of certification should be made, if possible, before May 1st, and certificates should be sent to the Registrar by July 1st.

THE NEW ENGLAND COLLEGE ENTRANCE CERTIFICATE BOARD

Brown University has united with certain other colleges in New England in the establishment of the New England College Entrance Certificate Board, which will control the list of approved schools from which admission by certificate will be allowed, beginning January 1, 1904. The list of schools from which admission to this University is now allowed will be in use only for the beginning of the next academic year, 1903-04. After January 1st, 1904, certificates will be accepted from all schools upon the list of the Board and from no others in New England. Schools situated outside of New England may be placed upon the certificate list of Brown University by application of their principals to the Dean in the same manner as heretofore.

Principals of schools in New England who desire the certificate privilege with reference to any of the colleges represented on the New England College Entrance Certificate Board should address the Secretary of the Board, Professor Nathaniel F. Davis, 159 Brown St., Providence, R. I.

MATRICULATION

At the beginning of the second term Freshmen who have no entrance conditions and who have satisfactorily completed the work of the first term are matriculated. Until matriculated, all candidates for degrees, however admitted, are regarded as on probation.

REQUIREMENTS FOR ADMISSION TO ADVANCED STANDING

Candidates for admission to advanced standing coming from institutions of collegiate rank will receive due credit for their previous work upon presentation of an official certificate of standing.

Other candidates for admission to advanced standing must satisfy the entrance requirements for admission to Brown University in the course which they propose to enter. They may present by examination any course or courses found in the curriculum of the degree for which they apply, provided they arrange for the same with the Committee on Admission to Advanced Standing at the time of entrance.

Every candidate must present a letter of honorable dismissal from the institution last attended.

Formal application for admission should be made to the Dean of the University, and should be sent, if possible, before August 1st.

The examinations for 1903 will be held on Monday and Tuesday, September 14th and 15th. Candidates must report at the Registrar's Office at 9 A. M. on Monday, September 14th.

REQUIREMENTS FOR ADMISSION TO SPECIAL COURSES

The various courses of study in the University, both graduate and undergraduate, are open to mature persons of good character who have had the training requisite to pursue them with profit. This privilege is intended for those who wish to take advantage of the instruction offered in special branches without pursuing the full course of study required of candidates for a degree.

All students who can do so are advised to matriculate for a degree, and no one will be allowed to use the privilege here offered for the purpose of securing a merely nominal connection with the University.

Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees, and must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment can be presented.

Applicants for special courses must present to the Dean of the University on or before August 1st a certified and detailed statement of the character and extent of their preparatory work, including testimonials of character and ability from the last school or college attended. In case a student has attended several preparatory schools, he must present credentials from all.

Students who withdraw from a preparatory school before completing its course of study will not be admitted as special students unless the principal of the school cordially recommends such action.

Applicants must satisfy the officers of instruction, by examination or otherwise, that they are qualified to pursue the courses desired.

On leaving the University, a special student who desires a formal certificate of his attainments may receive it.

ENTRANCE REQUIREMENTS IN THE SEVERAL SUBJECTS

I.

ENGLISH

The preparation in English should include: (a) careful and prolonged training in grammar and composition; (b) thoughtful reading of all the prescribed books, and careful study of those named in division 3 below. It is recommended that the student also do as much supplementary reading as possible and commit to memory a considerable amount of poetry. The examination is intended to test the candidate's power of clear and accurate expression and his knowledge and appreciation of the books read. A candidate will not be accepted if his writing is seriously defective in spelling, use of capitals, punctuation, grammar, use of words, or structure of sentences and paragraphs, or if it shows insufficient acquaintance with the subject-matter of the prescribed books. As additional evidence of preparation the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work. The examination consists of three parts, which, however, cannot be taken separately:—

1. In the first part the candidate will be required to answer elementary questions in grammar and usage and to correct some examples of bad grammar and faulty choice of words.

2. In the second part the candidate should show a good general knowledge of the subject-matter of the books named; he should be able to state the leading thoughts of an essay, and to tell the main incidents, sketch the principal characters, and describe the striking scenes of a poem or novel. He should also be able to answer simple questions on the lives of the authors.

In 1903, 1904 and 1905 the books for this portion of the examination will be: Shakspeare's *Merchant of Venice* and *Julius Cæsar*; *The Sir Roger de Coverley Papers* in *The Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

In 1906, 1907 and 1908 they will be: Shakspeare's *Macbeth* and *The Merchant of Venice*; *The Sir Roger de Coverley Papers* in *The Spectator*;

Irving's *Life of Goldsmith*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe* and *The Lady of the Lake*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine* and *The Passing of Arthur*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

3. The third part requires careful and detailed study of the works named below. The examination covers subject-matter, logical structure, and literary form. Questions are asked about the style, the verse, the structure of the plots, the development of the characters, the meaning of words and allusions, and (in the case of essays and speeches) the logical structure of the whole.

In 1903, 1904 and 1905 the books for this portion of the examination will be: Shakspeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus* and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1906, 1907 and 1908 they will be: Shakspeare's *Julius Cæsar*; Milton's *L'Allegro*, *Il Penseroso*, *Comus* and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Milton*, and *Life of Johnson*.

II.

ALGEBRA

Through equations of the second degree.

Although candidates are not examined in Arithmetic, a knowledge of its fundamental principles and a careful training in accurate computations with whole numbers and with vulgar and decimal fractions are regarded as essential parts of a preparatory course. Candidates are especially urged not to neglect this subject.

The requirement in Algebra includes the following subjects: factors, common divisors and multiples; fractions, ratios and proportions; negative quantities and the interpretation of negative results; the doctrine of exponents; radicals and equations involving radicals; the binomial theorem for positive integral powers of the binomial, and the extraction of roots; putting questions into equations and the reduction of equations; the ordinary methods of elimination, and the solution of both numerical and literal equations of the first and second degrees with one or more unknown quantities, and of problems leading to such equations; arithmetical and geometrical progression.

NOTE: It is very important that the student should acquire a thorough knowledge not only of the practice, but also of the reasons involved in the elementary algebraic rules. He should likewise be able to use readily the more important formulæ, as, for example, the quadratic formula.

III.

PLANE GEOMETRY

The propositions which are contained in the ordinary treatises, and which are recognized as constituting the elements of Geometry; original propositions and problems in mensuration.

NOTE: Teachers of Geometry should lay stress on accuracy of statement and elegance of form as well as on clear and strict reasoning. They should avoid mere memory work, and should take special care in the proof of a proposition that no lines be drawn unless their construction is proved to be possible.

The school curriculum ought to be so arranged that not a single term, much less a year, shall pass without some time being given to a mathematical subject. For a four-year course an average of two and one-half hours per week during that time will give the best results.

IV.

SOLID GEOMETRY

The equivalent of Solid and Spherical Geometry as presented in Wells' *Geometry*, omitting the portion dealing with Regular Polyhedrons.

V.

PLANE TRIGONOMETRY

General formulæ and solution of plane triangles as presented in the first seventy-six pages of Wells' *New Plane and Spherical Trigonometry*.

VI.

ELEMENTARY LATIN

1. Cæsar. *Gallie War*, books I-IV, or books I-III and Sallust's *Catiline*, with questions on the forms, constructions and subject-matter.

2. Cicero. The *Oration against Catiline* and the *Oration for Archias*, with questions on the grammar and subject-matter.

3. Ovid. Twenty-five hundred lines, with questions on the subject-matter and prosody.

4. Translation at sight of ordinary passages from Cæsar and Cicero, with questions on the ordinary forms and constructions.

5. Translation into Latin of simple English sentences.

VII.

ADVANCED LATIN

1. Includes 1, 2, 3 mentioned under Elementary Latin.
2. Vergil. *Æneid*, books I-VI, or books I-V and the *Eclogues*, with questions on the construction, subject-matter and prosody.
3. Translation at sight of prose and verse, with questions on the construction, subject-matter and prosody.
4. Translation into Latin of a continuous passage of English narrative prepared from some portion of the prescribed prose.

VIII.

ELEMENTARY GREEK

1. Xenophon's *Anabasis*, books I, II, III, IV, regard being had not only to language but to subject-matter as well.
2. Grammar: A familiar knowledge of inflection, word-formation and ordinary syntax.
3. Composition: The first twenty-five exercises of Jones's *Composition* or Allinson's *Composition* as far as Part III, or Collar and Daniell's entire, or other equivalent preparation in writing connected Greek prose.

IX.

ADVANCED GREEK

Three books of Homer, or *Anabasis*, books V, VI, VII, or *Anabasis*, book V and *Hellenica*, books I and II. Students will also be expected to show proficiency in the grammar and composition noted in the elementary requirement.

X.

ELEMENTARY FRENCH

1. Proficiency in elementary French grammar, implying, especially, familiarity with the following topics: inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs and of the more usual irregular verbs, such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire* and *craindre*.

The mention of these topics is not to be understood as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends. Mastery of Whitney's *Brief French Grammar* will be regarded as sufficient.

2. Ability to translate simple prose at sight.

NOTE: It is believed that the required facility can be gained by reading, concurrently with the grammar work, from two hundred to four hundred duodecimo pages of at least three dissimilar works. Care should be taken not to read works assigned in the University courses.

3. Ability to pronounce French and to recognize French words and simple phrases when spoken.

NOTE: It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the French texts used in the class-room.

XI.

ADVANCED FRENCH

1. The translation at sight of standard French into good, idiomatic English.

2. The translation into French of a connected passage of English prose, to test the candidate's familiarity with grammar. Proficiency in grammar may also be tested by direct questions.

3. The writing of French from dictation.

Candidates will be expected to show a thorough knowledge of accidence, and familiarity with the essentials of French syntax, especially the uses of tenses, modes, prepositions and conjunctions.

The work to be done should comprise the reading of from four hundred to six hundred pages of ordinary French, including the amount read for the elementary requirement, constant practice in giving French paraphrases, abstracts or reproduction from memory of selected portions read; the study of a grammar of moderate completeness; writing from dictation.

XII.

ELEMENTARY GERMAN

1. Proficiency in elementary German grammar, implying, especially, familiarity with the following topics: declension of such nouns as are readily classified and of adjectives and pronouns; conjugation of weak verbs and of the more usual strong verbs; the commoner prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

The mention of these topics is not to be understood as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends. Mastery of Whitney's *Brief German Grammar* will be regarded as sufficient.

2. Ability to translate a passage of simple prose at sight, when a vocabulary of the less usual words is furnished.

NOTE: It is believed that the required facility can be gained by reading, concurrently with the grammar work, two hundred duodecimo pages of easy German, chiefly narrative prose, with a few lyric poems. Care should be taken not to read works assigned in the University courses.

3. Ability to pronounce German and to recognize German words and simple phrases when spoken.

NOTE: It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the German texts used in the class-room.

XIII.

ADVANCED GERMAN

In addition to the elementary requirements:

1. Ability to translate at sight ordinary German into good, idiomatic English, the passages for translation being suited to the proficiency of those who have read not less than five hundred pages of classical and contemporary prose and verse selected from such works as Lessing's *Minna von Barnhelm*; Schiller's *Wilhelm Tell*, *Maria Stuart*, *Jungfrau von Orleans* and *Gedichte*; Goethe's *Hermann und Dorothea* and *Gedichte*; Heine's *Reisebilder* and *Gedichte*; Freytag's *Die Journalisten* and *Bilder aus der Vergangenheit*; Scheffel's *Der Trompeter von Säckingen*; Uhland's *Gedichte*; Hoffmann's *Historische Erzählungen*; Meyer's *Gustav Adolf's Page*; Riehl's *Novellen*.

It is recommended that at least one-half of the reading be selected from the works of Lessing, Schiller and Goethe.

2. Ability to discuss the main facts in the life of each author studied and to discuss the characters in the dramas selected.

3. Ability to read every text intelligently in the original. Such proficiency can be acquired only by constant oral practice in the class-room.

4. A knowledge of the elements of word-formation and of the principal uses of prepositions, conjunctions, modal auxiliaries, the subjunctive mode and the infinitive.

NOTE: Preparation for the advanced examination by candidates already prepared for the elementary examination should occupy at least five recitation periods a week in the last year of the preparatory course, or equivalent work otherwise distributed.

XIV.

HISTORY

Either of the two following groups, each including two fields of historical study:

1. Greek and Roman history. (a) Greek history to the death of Alexander, with due reference to Greek life, literature and art. (b) Roman

history to the end of the reign of Marcus Aurelius, with due reference to literature and government.

2. English and American history. (a) English History, with due reference to social and political development. (b) American History, with the elements of civil government.

For preparation in each of the two historical fields included in (1) and (2), a course of study equivalent to at least three lessons a week for one year will be necessary, or five lessons a week for one year for the two fields together.

The candidates will be expected to show such general knowledge of each field as may be acquired from the study of an accurate modern text-book of not less than three hundred pages, supplemented by not less than three hundred pages of suitable parallel readings.

The following text-books will indicate the kind and extent of preparation, other than that obtained through the parallel readings, which the candidate should possess:

Greek history. Botsford's *History of Greece* or Oman's *History of Greece*.

Roman history. Botsford's *History of Rome* or Pelham's *History of Rome*.

English history. Either Coman and Kendall's *History of England* or Larned's *History of England*.

American history. Either Montgomery's *Student's American History* or Johnston's *High School History of the United States*.

Suitable equivalents will be accepted for the foregoing text-books.

XV.

PHYSICS

The equivalent of Hall and Bergen's *Text-book of Physics*, together with an approved laboratory course of at least forty experiments.

XVI.

CHEMISTRY

Candidates will be expected to have a good knowledge of the non-metals and their principal combinations, the metals and their principal salts, the more important topics of chemical philosophy, chemical nomenclature and notation, and the ordinary methods of stoichiometry. Candidates should have personally performed about 100 simple chemical experiments (those in Appleton's *Young Chemist* are mentioned as illustrations, but equivalents will be accepted). Each candidate is expected to submit his manuscript notes, or reports of his work. It is supposed that a course accomplishing the preparation above outlined will require an amount of time equivalent to three hours a week for one school year.

XVII.

ASTRONOMY

Class instruction is assumed for the equivalent of three hours a week for a school year in the elementary principles of the science, including observations of the heavens with reference to the positions and movements of the heavenly bodies. The following are the chief topics to be studied:

- The Celestial Sphere; designation of the directions of a heavenly body.

- The Earth—its axial rotation; time, latitude, longitude; its orbital revolution; precession, aberration, the seasons, equation of time, the calendar.

- The Moon—its axial rotation, orbital motion, librations, phases, surface features, physical condition; lunar and solar eclipses.

- The Sun—its rotation, physical characteristics, light and heat.

- The Planets—apparent and real motions, individual characteristics.

- The Law of Gravitation—its control of the solar system; the tides.

- Comets and Meteors.

- The Stars; designation, classification by constellations, motions, distance, brightness, variables.

- Stellar Systems; clusters, nebulae; the stellar universe, cosmogony.

XVIII.

PHYSIOGRAPHY

Class instruction is assumed for the equivalent of three hours a week for a school year in the elementary principles of the science. It includes the following subjects:

- The Earth as a member of the solar system.

- The Atmosphere; its nature, temperature, pressure, moisture and precipitation, circulation, storms, weather, climate.

- The Oceans; form and general characteristics, life within the oceans, waves, currents, tides.

- The Lands; distribution, structure, processes of denudation and reconstruction and the resulting topographic features, such as plains, plateaus, mountains, valleys, hills, volcanoes.

- Life on the earth; influence of nature on man, influence of man on nature.

XIX.

FREEHAND DRAWING

Candidates will be required to show ability to execute neatly and accurately some simple style of lettering; to make freehand orthographic and perspective sketches of models ranging in difficulty from cubes and

cylinders to the separate parts of complicated machines; and to shade drawings of models bounded by planes and by singly and doubly curved surfaces. Candidates should submit to the head of the department of Drawing a complete set of drawings made under the supervision of a teacher of drawing and properly certified by him.

REQUIREMENTS FOR GRADUATE STUDENTS

REGISTRATION

1. To be registered as a graduate student, the applicant either must have received the degree of Bachelor of Arts, of Philosophy, of Science* or of Letters from an institution of good standing; or, being a candidate for the degree of Bachelor of Arts, of Philosophy or of Science in Brown University, and having attained an average rank of C in the first three years of the undergraduate course, must have completed by the end of the third year the amount of work required for the bachelor's degree for which he is a candidate, except the equivalent of not more than six hours' work a week for one year. But any student who, at the end of the third year of the undergraduate course, has to his credit less than the amount of work above indicated, may, after graduation, offer in fulfillment of the requirements for the degree of Master of Arts such extra work as he may have done in the undergraduate course, provided such extra work is in courses which may be taken by graduates and does not lie in more than three departments, and provided the student has attained in the extra work an average rank of C.**

2. On or before the first day of the academic year each candidate for registration must file an application with the Secretary of the Committee on Graduate Students, naming the departments, not exceeding three, which he wishes to enter. The application must be made on a blank provided by the Secretary of the Committee or by the Registrar of the University, and the blank must be signed by the heads of the departments concerned. If not a student or graduate of Brown University, the candidate must submit to the Secretary of the Committee, with his application, his diploma or other official evidence of having received a first academic degree, together with a marked catalogue or detailed statement showing the academic courses pursued.

* NOTE. The degree of Bachelor of Science when given for technical work, does not lead to the degree of Master of Arts or of Doctor of Philosophy in Brown University. The degree of Bachelor of Science referred to in these regulations means a degree given for a course of liberal study only.

** By vote of the Faculty, the privilege of counting extra work toward the degree of Master of Arts begins with the graduates of the year 1902.

ENROLLMENT

3. A student who has been duly registered as a graduate student is enrolled as a candidate for a degree when his course of study for the degree has been approved by the Committee on Graduate Students and by the Faculty.

4. On or before October 15th the head of each department in which graduate students who propose to become candidates for degrees are working shall submit to the Committee on Graduate Students, for approval, a statement of the work outlined for every such student by the department. In the case of candidates for the degree of Master of Arts, such statements shall together form a complete statement of the course. In the case of candidates for the degree of Doctor of Philosophy, the statements submitted in the first year of candidacy may be a preliminary outline of the course, but a complete statement of the course must be submitted not later than October 15th in the last year of candidacy.

5. Although graduates of other colleges of good standing are entitled to register as graduate students, they are not enrolled as candidates for degrees unless the course of study pursued by them in the institution from which they come is substantially equivalent to the course leading to the corresponding degree in Brown University. While the privilege of enrollment, subject to the general regulations of the Faculty, is regularly granted to graduates of colleges and universities of high standing, each case is considered on its merits. Graduates of other colleges whose course of study is not, in the opinion of the Committee, equivalent to the corresponding course at Brown University may be allowed to register as graduate students, but if enrolled they will be required to make up their deficiency under the direction of the Committee.

THE DEGREE OF MASTER OF ARTS

6. To obtain the degree of Master of Arts the candidate must have obtained the degree of Bachelor of Arts, of Philosophy, of Science or of Letters; or, being a candidate for the degree of Bachelor of Arts, of Philosophy or of Science in Brown University, must have been duly enrolled as a candidate for the degree of Master of Arts in the way previously specified, and must have completed a course of liberal graduate study, in addition to that required for the bachelor's degree, of not less than fifteen hours a week for one year, and passed satisfactory examinations thereupon. Of undergraduate courses, none can be taken by graduate students as a part of their work for the degree of Master of Arts except such as are regularly open to Juniors and Seniors only, or to Sophomores who enter on advanced requirements. Where graduate students pursue courses primarily designed for undergraduates, a higher degree of scholar-

ship will be required than in the case of undergraduates. By continuous residence at the University, candidates fulfilling the above conditions may obtain the degree in one year.

7. Work done at another institution, and not to be used in fulfillment of the requirements for any advanced degree elsewhere, may, with the approval of the Committee, be offered in partial fulfillment of the requirements for the degree of Master of Arts; but the equivalent of at least three hours' work per week for one year must be done at Brown University.

8. In cases of partial or entire non-residence, the degree of Master of Arts will not be conferred until after two years of study. Candidates for this degree, registered as *in absentia*, who desire some instruction at the University may register for the courses desired.

The degree of Master of Arts *in absentia* must be taken within three years after enrollment, unless the period is extended by special action of the Faculty. Candidacy may be terminated for cause at any time within six months after registration.

The examination of a candidate for the degree of Master of Arts *in absentia* will be held only when notification of the intention to appear for examination is given on or before April 1st of the year in which the candidate desires to receive the degree. The examination is public.

THE DEGREE OF DOCTOR OF PHILOSOPHY

9. To obtain the degree of Doctor of Philosophy the candidate must first have obtained the degree of Bachelor of Arts, of Philosophy, of Science or of Letters. He must reside continuously at the University at least two years after registration, pursuing a systematic course of advanced study approved by the Committee on Graduate Students, the Faculty, and the Board of Fellows, and passing satisfactory examinations on the same, and must conclude his course with a thesis giving evidence of high scholarship and of special attainments in the studies pursued.

10. For the degree of Doctor of Philosophy at least two courses are necessary, a major and a minor. The work of the major course is supposed to occupy not less than three-fifths of the student's time. The indication of both major and minor courses rests with the head of the department in which the major course is pursued, and a statement of the work indicated must be submitted to the Committee by the head of the department in which the major work is taken on or before October 15th; but the approval of the head of the department in which the minor course is offered is necessary before the minor course can be taken.

11. The candidate must further possess a reading knowledge of Latin, German and French, suitable for the purposes of his special studies, unless for sufficient reasons excused in respect to one of these languages. To test the candidate's proficiency in this particular, he is examined before

December 1st in the last year of his candidacy by a committee consisting of the heads of the departments in which the major and minor courses lie, and the heads of the departments of Latin, German and French.

12. A year of work for the degree of Master of Arts may be, but is not necessarily, counted as a year of work for the degree of Doctor of Philosophy.

13. The candidate for the degree of Doctor of Philosophy is examined publicly before the first of June by a committee consisting in each case of the Committee on Graduate Students, together with those members of the Faculty who have conducted the instruction of the candidate and any other officers of professorial rank in the respective departments. The examination is held only when notification of the intention to appear for examination is given on or before April 1st of the year in which the candidate desires to obtain his degree. The thesis of a candidate for the degree of Doctor of Philosophy must be presented to the Faculty, in typewritten copy or print, before April 1st in that year. The approval of such thesis by the Faculty is essential to the attainment of the degree.

SPECIAL GRADUATE STUDENTS

14. Persons who have obtained the degree of Bachelor of Arts, of Philosophy, of Science or of Letters, and who desire to pursue graduate studies without being candidates for an advanced degree, are allowed to register as special graduate students. Such students are subject to all the regulations of the University regarding graduate students except those which relate to candidates for degrees.

DUES

For the University dues connected with graduate study, see on a later page under "Expenses."

Undergraduate Courses Arranged According to Years and Terms

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

For Students Entering in 1902 or after

PRESCRIBED COURSES

Candidates are required to take certain studies before the completion of the course, as shown in the following tabulation:

Ancient Language (either Latin or Greek or both). Six hours.

At least three hours must be taken in the Freshman year, and the whole six hours must be completed by the end of the Sophomore year.

Modern Language (either French or German or both). Six hours.

At least three hours must be taken in the Freshman year, and the whole six hours must be completed by the end of the Sophomore year.

If only one language is presented for admission the elementary course in the language not presented must be taken.

Languages in which elementary work only is presented for admission must be continued. If elementary work only is presented in one language that language must be continued in the Freshman year. If elementary work only is presented in both languages the continuation of one of these may be postponed to the Sophomore year.

Subject to the above restrictions a student may take the six hours required wholly in French, wholly in German, or three hours in each, choosing any courses for which he is fitted by his previous work.

Mathematics. Freshman year. Four hours.

Those who present Solid and Spherical Geometry and Plane Trigonometry must take Mathematics five hours per week during the Freshman year. This includes the courses now numbered Mathematics 4, 5, 6, 7, 9, 10 and 12. Students taking these courses will be enabled to begin work in sciences requiring Mathematics one year earlier than other students.

Rhetoric (elementary). Freshman year. Three hours.

Rhetoric (argumentation). Junior year. One hour.

European History. Three hours.

First and second terms in either the Sophomore or the Junior year.

English Literature. Three hours.

Sophomore, Junior or Senior year.

Physical or Natural Science, a continuous course throughout the year. Three hours.

Freshman, Sophomore or Junior year.

Political Science, Social Science and Political Economy. Three hours.

Sophomore, Junior or Senior year.

Philosophy. Three hours.

Sophomore, Junior or Senior year.

FRESHMAN YEAR

I. *Required Studies.*

Latin 1, 2, 3, or Greek A, B, C or 1, 2, 3. Three hours.

French A, B, C or 1, 2, 3, or }
German 1, 2, 3 or 24, 25, 26. } Three hours.

Mathematics 3, 1, 2. Four hours, or

Mathematics 4, 5, 6, 7, 9, 10, 12. Five hours.

English 1, 2, 3. Three hours.

II. *Elective Studies.* One must be chosen in addition to those taken as required studies.

Latin 1, 2, 3. For students presenting elementary and advanced Latin for admission.

Greek A, B, C. For students presenting no Greek for admission.

Greek 1, 2, 3. For students presenting elementary and advanced Greek for admission.

French A, B, C. For students presenting no French for admission.

French 1, 2, 3. For students presenting elementary French for admission.

French 4, 5, 6 or 13, 14, 15. For students presenting elementary and advanced French for admission.

German 1, 2, 3. For students presenting no German for admission.

German 24, 25, 26. For students presenting elementary German for admission.

German 34, 35, 36. For students presenting elementary and advanced German for admission.

Greek 46, Latin 46, 47 (History of Greek and Roman Life and Institutions). For all students.

Chemistry 1, 2, 3. For all students.

Chemistry 4, 5, 6. For students presenting Chemistry for admission (subject to consent of department).

Botany 1, 2, 3. For all students.

Comparative Anatomy 15, 1, 35. For all students.

SOPHOMORE YEAR.

I. Required studies which must be completed by the end of the Sophomore year.

That portion of the required work in ancient and modern languages not completed in the Freshman year.

II. *Other required and elective studies sufficient with studies taken under I to make fifteen hours a week.

JUNIOR YEAR

I. Required studies which must be completed by the end of the Junior year.

English (argumentation). One hour.

The required History and Physical or Natural Science, if not previously taken.

II. *Other required and elective studies sufficient with studies taken under I to make sixteen hours a week.

SENIOR YEAR

I. All required studies not previously taken.

II. *Elective studies sufficient with studies taken under I to make fifteen hours a week.

*See list of elective studies on pages 42-46; also statements under Courses of Instruction Arranged According to Departments.

II. ELECTIVE COURSES

FIRST TERM

Arabic 1 Sr.	Comparative Literature 1 Jr. Sr.	German 34* Fr. So. Jr. Sr.
Aramaic 1 Sr.	Drawing 16 Fr. So. Jr. Sr.	German 52 Sr.
Art 1 Jr. Sr.	" 7 Jr. Sr.	" 61 Sr.
" 7 Jr. Sr.	Drawing 7 So. Jr. Sr.	Greek A Fr. So. Jr. Sr.
" 14 Jr. Sr.	" 10 Jr. Sr.	" 1 Fr. So. Jr. Sr.
Astronomy 1 Jr. Sr.	" 27 Sr.	" 4 So.
" 3 Jr. Sr.	" 15 So. Jr.	" 7* Jr. Sr.
" 8 Sr.	Sr.	" 10* Jr. Sr.
Biblical Literature 1* So. Jr. Sr.	Drawing 13 Fr.	" 13* Jr. Sr.
Biblical Literature 4 So. Jr. Sr.	" 2 Fr. So. Jr. Sr.	" 16 Jr. Sr.
Biblical Literature 7 Jr. Sr.	Sr.	" 28* Jr. Sr.
Botany 1 Fr. So. Jr. Sr.	Education 1 Jr. Sr.	" 45* Jr. Sr.
Sr.	" 4 Sr.	" 25* Sr.
Botany 4* So. Jr. Sr.	Elementary Law 1 Jr. Sr.	" 32* Sr.
" 7 So. Jr. Sr.	Sr.	" 34 Sr.
Chemistry 1 Fr. So. Jr. Sr.	Elementary Law 4* Jr. Sr.	" 41 Sr.
Chemistry 4 So. Jr. Sr.	Elementary Law 9* Jr. Sr.	" 46 Fr. So.
" 7 Jr. Sr.	English 7 So. Jr. Sr.	Hebrew 1 Jr. Sr.
" 10 Jr. Sr.	" 13 So. Jr. Sr.	" 7 Sr.
Civil Engineering 1 So. Jr. Sr.	" 16 So. Jr. Sr.	" 16 Sr.
Jr. Sr.	" 19 Jr. Sr.	History 18 Jr. Sr.
Civil Engineering 5, 5a Jr. Sr.	" 25 Jr. Sr.	" 15* Jr. Sr.
Civil Engineering 19* Sr.	" 31 Jr. Sr.	" 19* Jr. Sr.
Civil Engineering 29 Jr. Sr.	" 34* Jr. Sr.	" 22 Jr. Sr.
Civil Engineering 30 Sr.	" 40 Jr. Sr.	" 25 Jr. Sr.
Civil Engineering 35 Jr. Sr.	" 67* Jr. Sr.	" 28* Jr. Sr.
Comparative Anatomy 15 Fr. So. Jr. Sr.	" 46 Jr. Sr.	" 12 Sr.
Sr.	" 49 Jr. Sr.	" 14 Sr.
Comparative Anatomy 3 So. Jr. Sr.	" 55 Jr. Sr.	Italian 1 Jr. Sr.
Comparative Anatomy 2 So. Jr. Sr.	" 58* Jr. Sr.	Latin 1 Fr. So. Jr. Sr.
Comparative Anatomy 16 Jr. Sr.	" 61 Jr. Sr.	" 4 So.
Comparative Anatomy 19 Jr. Sr.	" 64 Sr.	" 7* Jr. Sr.
Comparative Anatomy 31* Jr. Sr.	French 4* So. Jr. Sr.	" 11 Jr. Sr.
Comparative Anatomy 36 So. Jr. Sr.	" 13 So. Jr. Sr.	" 10* Jr. Sr.
	" 37 Jr. Sr.	" 31* Jr. Sr.
	" 16 Sr.	" 37 So. Jr. Sr.
	Geology 1 Sr.	" 16* Jr. Sr.
	" 5 Sr.	" 19* Sr.
	German 4 So. Jr. Sr.	" 22* Sr.
	" 5 So. Jr. Sr.	" 43 Jr. Sr.
	" 49* Jr. Sr.	" 46 Fr. So.
	" 28* Jr. Sr.	Mathematics 9 So. Jr. Sr.
	" 46 Jr. Sr.	Sr.
	" 16 Jr. Sr.	Mathematics 13 So. Jr. Sr.
	" 40 So. Jr. Sr.	Sr.
	" 10* Jr. Sr.	Mathematics 15 Jr. Sr.
	" 43 Jr. Sr.	Mathematics 21 Sr.
		" 27 Sr.
		" 32* Sr.

* Not offered in 1902-1903.

Mathematics 18* Sr.	Philology 7 Sr.	Political Economy 19
Mechanical Engineering 19 So. Jr. Sr.	" 10 Sr.	Jr. Sr.
Mechanical Engineering 3 Sr.	Philosophy 19 So. Jr. Sr.	Political Economy 15
Mechanical Engineering 6 Sr.	" 2 Jr.	Jr. Sr.
Mechanical Engineering 9 Jr. Sr.	" 20 Sr.	Political Economy 22
Mechanical Engineering 22* Sr.	" 29 Jr. Sr.	Jr. Sr.
Mechanical Engineering 10-18 So. Jr. Sr.	" 39 Sr.	Political Science 4 Jr.
Mechanics 3 So. Jr. Sr.	" 8 Jr. Sr.	Sr.
" 7 Jr. Sr.	" 5 Sr.	Political Science 1 Jr.
Music 1 So. Jr. Sr.	" 33 Sr.	Sr.
" 4 Jr. Sr.	Physics 1 So. Jr. Sr.	Political Science 3 Jr.
" 7* Sr.	" 5 Jr. Sr.	Sr.
" 10* Jr. Sr.	" 36 Sr.	Political Science 13
New Testament 5 Jr. Sr.	" 11 Jr. Sr.	Sr.
New Testament 7* Jr. Sr.	" 13 Sr.	Political Science 8 Sr.
Old Norse 1 Sr.	" 17 Sr.	" " 17 Sr.
Philology 4* Jr. Sr.	" 26 Sr.	Social Science 12 So.
	" 29 Jr. Sr.	Jr. Sr.
	" 33 Sr.	Social Science 10 Jr.
	" 40 Jr. Sr.	Sr.
	" 43 Sr.	Social Science 1 Jr. Sr.
	Political Economy 1	" " 7 Sr.
	Jr. Sr.	Spanish 1 So. Jr.
	Political Economy 9	" 4 Jr. Sr.
	Jr. Sr.	

SECOND TERM

Arabic 2 Sr.	Civil Engineering 2 So.	Comparative Anatomy 9 Jr. Sr.
Aramaic 2 Sr.	Jr. Sr.	Comparative Anatomy 32* Jr. Sr.
Art 4 Jr. Sr.	Civil Engineering 6 Jr.	Comparative Anatomy 37 So. Jr. Sr.
" 9 Jr. Sr.	Sr.	Comparative Literature 2 Jr. Sr.
" 15 Jr. Sr.	Civil Engineering 10	Drawing 17 Fr. So. Jr.
Astronomy 2 Jr. Sr.	Jr. Sr.	Sr.
" 4 Jr. Sr.	Civil Engineering 16	Drawing 8 So. Jr. Sr.
" 9 Sr.	Sr.	" 11 Jr. Sr.
" 18 Jr. Sr.	Civil Engineering 20*	" 28 Sr.
Biblical Literature 2* So. Jr. Sr.	Sr.	" 15 So. Jr. Sr.
Biblical Literature 5 So. Jr. Sr.	Civil Engineering 31	" 19 So. Jr. Sr.
Biblical Literature 8 Jr. Sr.	Sr.	" 21 So. Jr. Sr.
Botany 2 Fr. So. Jr. Sr.	Civil Engineering 36	" 3 Fr. So. Jr.
Botany 5* So. Jr. Sr.	Jr. Sr.	Sr.
" 12 So. Jr. Sr.	Comparative Anatomy 1 Fr. So. Jr. Sr.	Education 2 Jr. Sr.
Chemistry 2 Fr. So. Jr. Sr.	Comparative Anatomy 4 So. Jr. Sr.	" 5 Sr.
Chemistry 5* So. Jr. Sr.	Comparative Anatomy 17 Jr. Sr.	Elementary Law 2 Jr.
Chemistry 8 Jr. Sr.	Comparative Anatomy 20 Jr. Sr.	Sr.
" 11 Jr. Sr.		Elementary Law 7* Jr. Sr.

* Not offered in 1902-1903.

Elementary Law 5* Jr. Sr.	History 23 Jr. Sr.	Philosophy 3 Jr.
English 8 So. Jr. Sr.	" 26 Jr. Sr.	" 21 Sr.
" 11 Jr. Sr.	" 29* Jr. Sr.	" 30 Jr. Sr.
" 14 So. Jr. Sr.	" 12 Sr.	" 40 Sr.
" 17 So. Jr. Sr.	" 14 Sr.	" 9 Jr. Sr.
" 20 Jr. Sr.	Italian 2 Jr. Sr.	" 23 Sr.
" 26 Jr. Sr.	Latin 2 Fr. So. Jr. Sr.	" 26* Sr.
" 32 Jr. Sr.	" 5 So.	" 17* Sr.
" 35* Jr. Sr.	" 8* Jr. Sr.	" 34 Sr.
" 41 Jr. Sr.	" 12 Jr. Sr.	Physics 2* So. Jr. Sr.
" 68* Jr. Sr.	" 38 So. Jr. Sr.	" 32 So. Jr. Sr.
" 47 Jr. Sr.	" 44 Jr. Sr.	" 9 Jr. Sr.
" 50 Jr. Sr.	" 46 Fr. So.	" 39 Sr.
" 56 Jr. Sr.	" 14* Jr. Sr.	" 12 Jr. Sr.
" 59* Jr. Sr.	" 32* Jr. Sr.	" 37* So. Jr. Sr.
" 62 Jr. Sr.	" 17* Jr. Sr.	" 38* So. Jr. Sr.
" 65 Sr.	" 20* Sr.	" 14 Sr.
French 5* So. Jr. Sr.	" 23* Sr.	" 18 Sr.
" 14 So. Jr. Sr.	Mathematics 10 So. Jr. Sr.	" 20 Sr.
" 38 Jr. Sr.	Sr.	" 27 Sr.
" 17 Sr.	Mathematics 14 So. Jr. Sr.	" 30 Jr. Sr.
Geology 2 Sr.	Sr.	" 34 Sr.
German 6 So. Jr. Sr.	Mathematics 16 Jr. Sr.	" 44 Sr.
" 7 So. Jr. Sr.	" 22 Sr.	" 41 Jr. Sr.
" 50* Jr. Sr.	" 28 Sr.	" 45 Sr.
" 29* Jr. Sr.	" 33* Sr.	Political Economy 10 Jr. Sr.
" 35* Fr. So. Jr. Sr.	" 19* Sr.	Political Economy 2 Jr. Sr.
German 44 Jr. Sr.	Mechanical Engineering 20 So. Jr. Sr.	Political Economy 4 Jr. Sr.
" 53 Sr.	Mechanical Engineering 4 Sr.	Political Economy 20 Jr. Sr.
" 62 Sr.	Mechanical Engineering 7 Sr.	Political Economy 23 Jr. Sr.
" 47 Jr. Sr.	Mechanical Engineering 9a Jr. Sr.	Political Science 12 So. Jr. Sr.
" 17 Jr. Sr.	Mechanical Engineering 10-18 So. Jr. Sr.	Political Science 7 Jr. Sr.
" 41 So. Jr. Sr.	Mechanics 4 So. Jr. Sr.	Political Science 15 Jr. Sr.
" 11* Jr. Sr.	" 8 Jr. Sr.	Political Science 9 Sr.
Greek B Fr. So. Jr. Sr.	Music 2 So. Jr. Sr.	" " 18 Sr.
" 2 Fr. So. Jr. Sr.	" 5 Jr. Sr.	" " 14 Sr.
" 5 So.	" 8* Sr.	" " 16 Jr. Sr.
" 8* Jr. Sr.	" 14* Jr. Sr.	Sr.
" 12* Jr. Sr.	" 11* Jr. Sr.	Social Science 2 Jr. Sr.
" 14* Jr. Sr.	New Testament 1 Jr. Sr.	" " 5 Jr. Sr.
" 17 Jr. Sr.	Sr.	" " 8 Sr.
" 23 So. Jr. Sr.	New Testament 6* Jr. Sr.	Spanish 2 So. Jr.
" 26* Sr.	Sr.	" 5 Jr. Sr.
" 43 So. Jr. Sr.	Old Norse 2 Sr.	Zoology 1 Jr. Sr.
" 35 Sr.	Philology 1 So. Jr. Sr.	
" 42 Sr.	" 5* Jr. Sr.	
Hebrew 2 Jr. Sr.	" 11 Sr.	
" 17 Sr.	Philosophy 27 So. Jr. Sr.	
" 8 Sr.	Sr.	
History 3 Jr. Sr.		
" 11* Jr. Sr.		
" 20* Jr. Sr.		

* Not offered in 1902-1903.

THIRD TERM

Anthropology 1 Sr.	Comparative Anat- omy 34 So. Jr. Sr.	Geology 9 Sr.
Arabic 3 Sr.	Comparative Anat- omy 30 Jr. Sr.	German 8 So. Jr. Sr.
Aramaic 3 Sr.	Comparative Anat- omy 18 Jr. Sr.	" 9 So. Jr. Sr.
Art 6 Jr. Sr.	Comparative Anat- omy 21 Jr. Sr.	" 51* Jr. Sr.
" 8 Jr. Sr.	Comparative Anat- omy 33* Jr. Sr.	" 30* Jr. Sr.
" 16 Jr. Sr.	Comparative Anat- omy 38 So. Jr. Sr.	" 48 Jr. Sr.
Astronomy 6 Jr. Sr.	Comparative Litera- ture 3 Jr. Sr.	" 18 Jr. Sr.
" 5 Jr. Sr.	Drawing 18 Fr. So. Jr. Sr.	" 42 So. Jr. Sr.
" 10 Sr.	Drawing 14 So. Jr. Sr.	" 12* Jr. Sr.
" 19 Jr. Sr.	" 9 So. Jr. Sr.	" 36* Fr. So. Jr. Sr.
Biblical Literature 3* So. Jr. Sr.	" 12 Jr. Sr.	German 45 Jr. Sr.
Biblical Literature 6 So. Jr. Sr.	" 15 So. Jr. Sr.	" 54 Sr.
Biblical Literature 9 Jr. Sr.	" 20 So. Jr. Sr.	" 63 Sr.
Bibliography 1 Sr.	" 22 So. Jr. Sr.	" 11 Jr. Sr.
Botany 3 Fr. So. Jr. Sr.	" 4 Fr. So. Jr. Sr.	Greek C Fr. So. Jr. Sr.
Botany 14* So. Jr. Sr.	Education 3 Jr. Sr.	" 3 Fr. So. Jr. Sr.
" 9 So. Jr. Sr.	" 6 Sr.	" 6 So.
Chemistry 3 Fr. So. Jr. Sr.	Elementary Law 3 Jr. Sr.	" 9* Jr. Sr.
Chemistry 6 So. Jr. " 9 Jr. Sr.	Elementary Law 8* Jr. Sr.	" 15* Jr. Sr.
" 12 Jr. Sr.	Elementary Law 6* Jr. Sr.	" 18 Jr. Sr.
" 13 Jr. Sr.	English 9 So. Jr. Sr.	" 44* Jr. Sr.
" 23 Sr.	" 12 Jr. Sr.	" 24 So. Jr. Sr.
Civil Engineering 3 So. Jr. Sr.	" 15 So. Jr. Sr.	" 46 So. Jr. Sr.
Civil Engineering 8, 8a So. Jr. Sr.	" 18 So. Jr. Sr.	" 36 Sr.
Civil Engineering 7 Jr. Sr.	" 21 Jr. Sr.	Hebrew 3 Jr. Sr.
Civil Engineering 11 Jr. Sr.	" 27 Jr. Sr.	" 18 Sr.
Civil Engineering 17 Jr. Sr.	" 33 Jr. Sr.	" 9 Sr.
Civil Engineering 18 So. Jr. Sr.	" 36* Jr. Sr.	History 16 Jr. Sr.
Civil Engineering 21* Sr.	" 42 Jr. Sr.	" 32 Jr. Sr.
Civil Engineering 28 Jr. Sr.	" 48 Jr. Sr.	" 21* Jr. Sr.
Civil Engineering 32 Sr.	" 51 Jr. Sr.	" 27 Jr. Sr.
Civil Engineering 34 Jr. Sr.	" 57 Jr. Sr.	" 24 Jr. Sr.
Civil Engineering 37 Jr. Sr.	" 60* Jr. Sr.	" 14 Sr.
Comparative Anat- omy 35 Fr. So. Jr. Sr.	" 63 Jr. Sr.	" 30* Jr. Sr.
	" 66 Sr.	" 12 Sr.
	" 69* Jr. Sr.	Italian 3 Jr. Sr.
	French 6* So. Jr. Sr.	Latin 3 Fr. So. Jr. Sr.
	" 15 So. Jr. Sr.	" 6 So.
	" 39 Jr. Sr.	" 9* Jr. Sr.
	" 18 Sr.	" 13 Jr. Sr.
		" 39 So. Jr. Sr.
		" 15* Jr. Sr.
		" 33* Jr. Sr.
		" 18* Jr. Sr.
		" 21* Sr.
		" 24* Sr.
		" 45 Jr. Sr.
		" 47 Fr. So.
		Mathematics 8 So. Jr. Sr.

* Not offered in 1902-1903.

Mathematics 11 So. Jr. Sr.	Music 13 Jr. Sr.	Political Economy 12 So. Jr. Sr.
Mathematics 30* So. Jr. Sr.	New Testament 2 Jr. Sr.	Political Economy 3 Jr. Sr.
Mathematics 12 So. Jr. Sr.	New Testament 3* Jr. Sr.	Political Economy 11 Jr. Sr.
Mathematics 31 So. Jr. Sr.	Old Norse 3 Sr.	Political Economy 17 Jr. Sr.
Mathematics 17 Jr. Sr.	Philology 2 So Jr. Sr.	Political Economy 21 Jr. Sr.
" 23 Sr.	" 6* Jr. Sr.	Political Economy 24 Jr. Sr.
" 29 Sr.	" 12 Sr.	Political Science 2 Jr. Sr.
" 34* Sr.	Philosophy 43 So. Jr. Sr.	Sr.
" 20* Sr.	Philosophy 4 Jr.	Political Science 10 Sr.
Mechanical Engineering 21 So. Jr. Sr.	" 22 Sr.	Political Science 5 Sr.
Mechanical Engineering 5 Sr.	" 31 Jr. Sr.	Political Science 6 Jr. Sr.
Mechanical Engineering 8 Sr.	" 41 Sr.	Political Science 19 Sr.
Mechanical Engineering 9b Jr. Sr.	" 10 Jr. Sr.	Political Science 11 Jr. Sr.
Mechanical Engineering 10-18 So. Jr. Sr.	" 24 Sr.	Social Science 4 Jr. Sr.
Mechanics 6 So. Jr. Sr.	" 35 Sr.	" " 3 Jr. Sr.
Music 3 So. Jr. Sr.	" 44 Sr.	" " 11 Jr. Sr.
" 6 Jr. Sr.	Physics 4 So. Jr. Sr.	" " 9 Sr.
" 9* Sr.	" 10 Jr. Sr.	Spanish 3 So. Jr.
" 15 Jr. Sr.	" 46 Sr.	" 6 Jr. Sr.
" 12* Jr. Sr.	" 15 Jr. Sr.	Zoölogy 3 Jr. Sr.
	" 16 Sr.	
	" 19 Sr.	
	" 21 Sr.	
	" 28 Sr.	
	" 31 Jr. Sr.	
	" 35 Sr.	
	" 42 Jr. Sr.	
	" 47 Sr.	

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

For students who entered before 1902

I. PRESCRIBED COURSES

SOPHOMORE YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
English 1	English 2	English 3
†German 1 or French A	German 2 or French B	German 3 or French C
Electives, nine hours	Gymnasium	Electives, nine hours
	Electives, nine hours	

* Not offered in 1902-1903.

†Students who pursue French 1, 2, 3 during the Freshman year must take German during the Sophomore year; those who pursue German 4, 6, 8 during the Freshman year must take French during the Sophomore year.

JUNIOR YEAR

English 4	English 5	English 6
History 1	History 2	Electives, fifteen
Electives, † twelve hours	Gymnasium Electives, twelve hours	hours

SENIOR YEAR

With the exception of Gymnasium practice, the work of the Senior year consists entirely of elective studies, fifteen hours a week.

II. ELECTIVE COURSES

See list of elective studies on pages 42-46 ; also statement under Courses of Instruction Arranged According to Departments.

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

For Students entering in 1902 or after

I. PRESCRIBED COURSES

Candidates are required to take certain studies before the completion of the course, as shown in the following tabulation:

Modern Language. An amount sufficient with the work presented for admission to complete the elementary course and a year of advanced work in both French and German. A student who is admitted in both advanced French and advanced German is required to continue only one of these languages for one year, three hours a week, in college.

**Mathematics.* Freshman year. Four or five hours.

English (elementary). Freshman year. Three hours.

English (advanced). Junior year. One hour.

European History. Three hours.

First and second terms in either the Sophomore or the Junior year.

†Every candidate for the degree of Bachelor of Arts must take before graduation some one complete course in Philosophy.

* Five hours for students presenting Solid and Spherical Geometry and Plane Trigonometry for entrance.

Physical or Natural Science, a continuous course throughout the year.
Three hours.

Freshman, Sophomore or Junior year.

Philosophy. Three hours.

Sophomore, Junior or Senior year.

FRESHMAN YEAR

I. *Required Studies*.

English 1, 2, 3. Three hours.

French A, B, C or 1, 2, 3, or }
German 1, 2, 3 or 24, 25, 26. } Three hours

Mathematics 3, 1, 2. Four hours, or

Mathematics 4, 5, 6, 7, 9, 10, 12. Five hours.

II. *Elective Studies*. Two must be chosen in addition to those taken as required studies.

Latin 1, 2, 3. For students presenting elementary and advanced Latin for admission.

Greek A, B, C. For students presenting no Greek for admission.

Greek 1, 2, 3. For students presenting elementary and advanced Greek for admission.

French A, B, C. For students presenting no French for admission.

French 1, 2, 3. For students presenting elementary French for admission.

French 13, 14, 15. For students presenting elementary and advanced French for admission.

German 1, 2, 3. For students presenting no German for admission.

German 24, 25, 26. For students presenting elementary German for admission.

German 34, 35, 36. For students presenting elementary and advanced German for admission.

Greek 46, Latin 46, 47 (Greek and Roman Life and Institutions). For all students.

Chemistry 1, 2, 3. For all students.

Chemistry 4, 5, 6. For students presenting Chemistry for admission (subject to consent of department).

Botany 1, 2, 3. For all students.

Comparative Anatomy 15, 1, 35. For all students.

Drawing 16, 17, 18. For all students.

SOPHOMORE YEAR

I. Required studies which must be completed by the end of the Sophomore year.

That portion of the required work in modern language not completed in the Freshman year.

- II. *Other required and elective studies sufficient with those taken under I to make fifteen hours a week.

JUNIOR YEAR

- I. Required studies which must be completed by the end of the Junior year.
 English (argumentation). One hour.
 The required History and Physical or Natural Science, if not previously taken.
- II. *Other required and elective studies sufficient with those taken under I to make sixteen hours a week.

SENIOR YEAR

- I. All required studies not previously taken.
- II. *Elective studies sufficient with those taken under I to make fifteen hours a week.

II. ELECTIVE COURSES

Same as for candidates for the degree of Bachelor of Arts. See list on pages 42-46.

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

For students who entered before 1902

I. PRESCRIBED COURSES

SOPHOMORE YEAR

German 1 or French A	German 2 or French B	German 3 or French C
Electives, † twelve hrs.	Gymnasium	Electives, twelve hrs.
	Electives, twelve hrs.	

JUNIOR YEAR

English 4	English 5	English 6
History 1	History 2	Electives, fifteen
Electives, twelve	Gymnasium	hours
hours	Electives, twelve hrs.	

*Elective studies same as for candidates for the degree of Bachelor of Arts. See list on pages 42-46. Also statements under Courses of Instruction Arranged According to Departments.

†Every candidate for the degree of Bachelor of Philosophy must take before graduation some one complete course in Philosophy.

SENIOR YEAR

With the exception of the Gymnasium practice, the work of the Senior year consists entirely of elective studies, fifteen hours a week.

II. ELECTIVE COURSES

Same as for candidates for the degree of Bachelor of Arts. See list on pages 42-46.

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

For students who entered before 1902

1. PRESCRIBED COURSES

SOPHOMORE YEAR

German 1 or French A	German 2 or French B	German 3 or French C
Physics 1	Physics 2	Physics 4
Chemistry 1	Chemistry 2	Chemistry 3
Electives, six hours	Electives, six hours	Electives, six hours
	Gymnasium	

JUNIOR YEAR

English 4	English 5	English 6
History 1	History 2	Electives, fifteen
Electives, † twelve hours	Gymnasium	hours
	Electives, twelve hours	

SENIOR YEAR

With the exception of Gymnasium practice, the work of the Senior year consists of fifteen hours of electives a week.

II. ELECTIVE COURSES

FIRST TERM

Astronomy 1 Jr. Sr.	Chemistry 10 Sr.	Civil Engineering 29
“ 3 Jr. Sr.	Civil Engineering 1	Jr. Sr.
“ 8 Sr.	So. Jr.	Civil Engineering 30
Botany 1 So. Jr. Sr.	Civil Engineering 5,	Sr.
“ 4* So. Jr. Sr.	5a, Jr. Sr.	Civil Engineering 35
“ 7 So. Jr. Sr.	Civil Engineering 19*	Jr. Sr.
Chemistry 4 Jr. Sr.	Sr.	Comparative Anat-
“ 7 Sr.		omy 15 So. Jr. Sr.

†Every candidate for the degree of Bachelor of Science must take before graduation some one complete course in Philosophy.

*Not offered in 1902-1903.

Comparative Anatomy 2 So. Jr. Sr.	Mathematics 13 So. Jr. Sr.	Physics 17 Sr.
Comparative Anatomy 16 Jr. Sr.	Mathematics 15 Jr. Sr.	" 26 Jr. Sr.
Comparative Anatomy 36 So. Jr. Sr.	Mathematics 21 Sr.	" 29 Jr. Sr.
Comparative Anatomy 3 So. Jr. Sr.	" 27 Sr.	" 33 Sr.
Comparative Anatomy 19 Jr. Sr.	" 32* Sr.	" 40 Jr. Sr.
Comparative Anatomy 31* Jr. Sr.	" 18* Sr.	" 43 Sr.
Education 1 Jr. Sr.	Mechanical Engineering 19 So. Jr. Sr.	Political Economy 1 Jr. Sr.
" 4 Sr.	Mechanical Engineering 6 Sr.	Political Economy 9 Jr. Sr.
English 16 So. Jr. Sr.	Mechanical Engineering 3 Sr.	Political Economy 15 Jr. Sr.
" 25 Jr. Sr.	Mechanical Engineering 10-18 So. Jr. Sr.	Political Economy 22 Jr. Sr.
French 13 So. Jr. Sr.	Mechanical Engineering 9 Jr. Sr.	Political Science 4 Jr. Sr.
" 37 Jr. Sr.	Mechanical Engineering 22* Sr.	Political Science 1 Jr. Sr.
" 4* So. Jr. Sr.	Mechanics 3 So. Jr. Sr.	Political Science 3 Jr. Sr.
" 16 Sr.	" 7 Jr. Sr.	Political Science 13 Sr.
Geology 1 Sr.	Philosophy 19 So. Jr. Sr.	" " 8 Sr.
" 5 Sr.	" 2 Jr.	" " 17 Sr.
German 4 So. Jr. Sr.	" 20 Sr.	Political Science 19 Jr. Sr.
" 5 Jr. Sr.	" 29 Jr. Sr.	Social Science 12 So. Jr. Sr.
History 18 Jr. Sr.	" 39 Sr.	Social Science 10 Jr. Sr.
" 15* Jr. Sr.	" 8 Jr. Sr.	Sr.
" 19* Jr. Sr.	" 5 Sr.	Social Science 1 Jr. Sr.
" 22 Jr. Sr.	" 33 Sr.	Social Science 7 Sr.
" 25 Jr. Sr.	Physics 5 Jr. Sr.	Spanish 1 So. Jr. Sr.
" 28* Jr. Sr.	" 11 Jr. Sr.	Spanish 4 Jr. Sr.
" 12 Sr.	" 36 Jr. Sr.	
" 14 Sr.	" 13 Sr.	
Italian 1 Jr. Sr.		

SECOND TERM

Astronomy 2 Jr. Sr.	Civil Engineering 16 Jr. Sr.	Comparative Anatomy 9 Jr. Sr.
" 4 Jr. Sr.	Civil Engineering 31 Sr.	Comparative Anatomy 32* Jr. Sr.
" 18 Jr. Sr.	Civil Engineering 36 Jr. Sr.	Education 2 Jr. Sr.
" 9 Sr.	Civil Engineering 38 Jr. Sr.	" 5 Sr.
Botany 2 So. Jr. Sr.	Comparative Anatomy 1 So. Jr. Sr.	English 17 So. Jr. Sr.
" 5* So. Jr. Sr.	Comparative Anatomy 4 So. Jr. Sr.	" 26 Jr. Sr.
" 12 So. Jr. Sr.	Comparative Anatomy 17 Jr. Sr.	French 14 So. Jr. Sr.
Chemistry 5 Jr. Sr.	Comparative Anatomy 37 So. Jr. Sr.	" 38 Jr. Sr.
" 8 Sr.	Comparative Anatomy 20 Jr. Sr.	Geology 2 Sr.
" 11 Sr.		German 6 So. Jr. Sr.
Civil Engineering 2 So. Jr. Sr.		" 7 Jr. Sr.
Civil Engineering 6 Jr. Sr.		History 11* Jr. Sr.
Civil Engineering 10 Jr. Sr.		" 20* Jr. Sr.
Civil Engineering 20* Sr.		" 23 Jr. Sr.
		" 26 Jr. Sr.
		" 29* Jr. Sr.

*Not offered in 1902-1903.

History 12 Sr.	Philosophy 21 Sr.	Political Economy 20
" 14 Sr.	" 30 Jr. Sr.	Jr. Sr.
Italian 2 Jr. Sr.	" 40 Sr.	Political Economy 23
Mathematics 14 So. Jr.	" 9 Jr. Sr.	Jr. Sr.
" 16 Jr. Sr.	" 23 Sr.	Political Science 12
" 22 Sr.	" 34 Sr.	So. Jr. Sr.
" 28 Sr.	Physics 9 Jr. Sr.	Political Science 7 Jr.
" 33* Sr.	" 12 Jr. Sr.	Sr.
Mechanical Engineer-	" 39 Jr. Sr.	Political Science 15
ing 4 Sr.	" 14 Sr.	Jr. Sr.
Mechanical Engineer-	" 18 Sr.	Political Science 9 Sr.
ing 7 Sr.	" 20 Sr.	Political Science 18
Mechanical Engineer-	" 27 Sr.	Sr.
ing 9a Jr. Sr.	" 30 Jr. Sr.	Political Science 14
Mechanical Engineer-	" 34 Sr.	Sr.
ing 20 So. Jr. Sr.	" 41 Jr. Sr.	Political Science 16
Mechanical Engineer-	" 44 Sr.	Jr. Sr.
ing 10-18 So. Jr. Sr.	Political Economy 10	Social Science 23 Jr. Sr.
Mechanics 4 So. Jr. Sr.	Jr. Sr.	" 5 Jr. Sr.
" 8 Jr. Sr.	Political Economy 2	" 8 Sr.
Philosophy 27 So. Jr.	Jr. Sr.	Spanish 2 So. Jr. Sr.
Sr.	Political Economy 4	" 5 Jr. Sr.
Philosophy 3 Jr.	Jr. Sr.	Zoölogy 1 Jr. Sr.

THIRD TERM

Anthropology 1 Sr.	Civil Engineering 32	History 16 Jr. Sr.
Astronomy 6 Jr. Sr.	Sr.	" 32 Jr. Sr.
" 5 Jr. Sr.	Civil Engineering 34	" 21* Jr. Sr.
" 10 Sr.	Jr. Sr.	" 27 Jr. Sr.
" 19 Jr. Sr.	Civil Engineering 37	" 24 Jr. Sr.
Botany 3 So. Jr. Sr.	Jr. Sr.	" 30* Jr. Sr.
" 9* Jr. Sr.	Comparative Anat-	" 12 Sr.
" 14 Jr. Sr.	omy 35 So. Jr. Sr.	" 14 Sr.
Chemistry 6 Jr. Sr.	Comparative Anat-	Italian 3 So. Jr. Sr.
" 9 Sr.	omy 34 So. Jr. Sr.	Mathematics 30* So.
" 12 Sr.	Comparative Anat-	Jr. Sr.
" 13 Sr.	omy 30 Jr. Sr.	Mathematics 8 So. Jr.
" 23 Sr.	Comparative Anat-	Sr.
Civil Engineering 3	omy 18 Jr. Sr.	Mathematics 11 So.
So. Jr.	Comparative Anat-	Jr. Sr.
Civil Engineering 8,	omy 21 Jr. Sr.	Mathematics 17 Jr. Sr.
8a, So. Jr. Sr.	Comparative Anat-	" 23 Sr.
Civil Engineering 7	omy 33* Jr. Sr.	" 29 Sr.
Jr. Sr.	Comparative Anat-	" 34* Sr.
Civil Engineering 11	omy 38 So. Jr. Sr.	" 20* Sr.
Jr. Sr.	Education 3 Jr. Sr.	" 31 Jr. Sr.
Civil Engineering 17	" 6 Sr.	Mechanical Engineer-
Jr. Sr.	English 18 So. Jr. Sr.	ing 21 So. Jr. Sr.
Civil Engineering 18	" 27 Jr. Sr.	Mechanical Engineer-
So. Jr. Sr.	French 6 So. Jr. Sr.	ing 5 Sr.
Civil Engineering 21*	" 39 Jr. Sr.	Mechanical Engineer-
Sr.	Geology 9 Sr.	ing 8 Sr.
Civil Engineering 28	German 8 So. Jr. Sr.	Mechanical Engineer-
Sr.	" 9 Jr. Sr.	ing 9b Jr. Sr.

*Not offered in 1902-1903.

Mechanical Engineering 10-18 So. Jr. Sr.	Physics 21 Sr.	Political Economy 24
Mechanics 6 So. Jr. Sr.	" 28 Sr.	Jr. Sr.
Philosophy 43 So. Jr.	" 31 Jr. Sr.	Political Science 2 Jr.
" 4 Jr.	" 35 Sr.	Sr.
" 31 Jr. Sr.	" 42 Jr. Sr.	Political Science 5
" 22 Sr.	" 47 Sr.	Sr.
" 41 Sr.	Political Economy 12	Political Science 6 Jr.
" 10 Jr. Sr.	So. Jr. Sr.	Sr.
" 24 Sr.	Political Economy 3	Political Science 19 Sr.
" 35 Sr.	Jr. Sr.	Political Science 11
" 44 Sr.	Political Economy 11	Jr. Sr.
Physics 10 Jr. Sr.	Jr. Sr.	Social Science 4 Jr. Sr.
" 15 Jr. Sr.	Political Economy 17	" " 11 Jr. Sr.
" 16 Sr.	Jr. Sr.	" " 3 Jr. Sr.
" 46 Sr.	Political Economy 21	" " 9 Jr. Sr.
" 19 Sr.	Jr. Sr.	Spanish 3 So. Jr. Sr.
		Zoölogy 3 Jr. Sr.

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

For students entering in 1902 or after

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 38	Mathematics 39	Mathematics 40
Drawing 1	Drawing 5	Drawing 6
Civil Engineering 25	Civil Engineering 26	Civil Engineering 27
English 1	English 2	English 3
French 1 or German 24	French 2 or German 25	French 3 or German 26
	Gymnasium	

SOPHOMORE YEAR

Mathematics 41	Mathematics 42	Mathematics 43
Civil Engineering 1	Civil Engineering 2	Civil Engineering 3
Physics 1	Physics 2	Physics 4
*Social Science 12	*Political Science 12	*Political Economy 12
	Gymnasium	†Civil Engineering 8a, 8
		Civil Engineering 34

Also of the following courses, the subject not presented for admission:

Chemistry 1	Chemistry 2	Chemistry 3
French A	French B	French C
German 1	German 2	German 3

*Or some other course, not technical, chosen with the approval of the head of the department.

†Civil Engineering 8a is taken during the spring recess.

JUNIOR YEAR

Civil Engineering 5, 5a	Civil Engineering 6	Civil Engineering 7
Mechanics 3	Mechanics 4	Mechanics 6
Astronomy 3	Astronomy 4	Astronomy 5
Physics 5	Physics 9	Physics 10
Physics 11	Physics 12	Physics 15
	Civil Engineering 10	Civil Engineering 17
	Gymnasium	

SENIOR YEAR

Civil Engineering 28	Civil Engineering 31	Civil Engineering 37
Civil Engineering 29	Civil Engineering 36	Civil Engineering 32
Civil Engineering 30	Civil Engineering 38	Civil Engineering 16
Mech. Engineering 6	Mech. Engineering 7	Civil Engineering 18
Mechanics 7	Mechanics 8	Civil Engineering 11
Geology 1	†Civil Engineering 10a	Civil Engineering 39
Thesis	Thesis	Thesis
	Gymnasium	

FOR CANDIDATES FOR THE DEGREE OF CIVIL ENGINEER

For students who entered before 1902

SOPHOMORE YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Civil Engineering 1	Civil Engineering 2	Civil Engineering 3
Drawing 7	Civil Engineering 4	Civil Engineering 8
Mathematics 9	Mathematics 10	*Civil Engineering 8a
German 1 or French A	German 2 or French B	Civil Engineering 34
Physics 1	Physics 2	Mathematics 12
Chemistry 1	Chemistry 2	German 3 or French C
	Gymnasium	Physics 4
		Chemistry 3

JUNIOR YEAR

Civil Engineering 5	Civil Engineering 6	Civil Engineering 7
Civil Engineering 5a	Mathematics 14	Civil Engineering 28
Mathematics 13	Mechanics 4	Mechanics 6
Mechanics 3	Astronomy 4	Astronomy 5
Astronomy 3	Physics 9	Physics 10
Physics 5	Civil Engineering 16	Mathematics 31
	Gymnasium	

†Civil Engineering 10a is a continuation of Civil Engineering 10 and is subject to change.

*Civil Engineering 8a is taken during the spring recess.

SENIOR YEAR

Civil Engineering 29	Civil Engineering 10	Civil Engineering 11
Civil Engineering 30	Civil Engineering 36	Civil Engineering 18
Mech. Engineering 6	Civil Engineering 38	Civil Engineering 17
Mechanics 7	Civil Engineering 31	Civil Engineering 37
Geology 1	Mech. Engineering 7	Civil Engineering 32
Thesis	Mechanics 8	Civil Engineering 39
	Thesis	Thesis
	Gymnasium	

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

For students entering in 1902 or after

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 38	Mathematics 39	Mathematics 40
Drawing 1	Drawing 5	Drawing 6
Civil Engineering 25	Civil Engineering 26	Civil Engineering 27
English 1	English 2	English 3
French 1 or German 24	French 2 or German 25	French 3 or German 26
	Gymnasium	

SOPHOMORE YEAR

Mathematics 41	Mathematics 42	Mathematics 43
Mech. Engineering 19	Mech. Engineering 20	Mech. Engineering 21
Physics 1	Physics 2	Physics 4
*Social Science 12	*Political Science 12	*Political Economy 12
	Mech. Engineering 10	Mech. Engineering 11
	Gymnasium	

Also, of the following courses the subject not presented for entrance:

Chemistry 1	Chemistry 2	Chemistry 3
French A	French B	French C
German 1	German 2	German 3

*Or some other course, not technical, chosen with the approval of the head of the department.

JUNIOR YEAR

Mech. Engineering 3
 Mech. Engineering 9
 Mech. Engineering 12
 Drawing 10
 Mechanics 3
 Physics 5

Mech. Engineering 4
 Mech. Engineering 9a
 Mech. Engineering 13
 Drawing 11
 Mechanics 4
 Physics 9
 Gymnasium

Mech. Engineering 5
 Mech. Engineering 9b
 Mech. Engineering 14
 Drawing 12
 Mechanics 6
 Physics 10

SENIOR YEAR

Mech. Engineering 6
 Mech. Engineering 22
 Drawing 27
 Mechanics 7
 Physics 11
 Thesis

Mech. Engineering 7
 Mech. Engineering 15
 Drawing 28
 Mechanics 8
 Physics 12
 Thesis
 Gymnasium

Mech. Engineering 8
 Mech. Engineering 16
 Drawing 32
 Drawing 32a
 Physics 15
 Thesis

FOR CANDIDATES FOR THE DEGREE OF MECHANICAL ENGINEER

For students who entered before 1902

SOPHOMORE YEAR

First Term

Mathematics 9
 Drawing 7
 Mech. Engineering 1
 Chemistry 1
 Physics 1
 German 1 or French A

Second Term

Mathematics 10
 Drawing 8
 Mech. Engineering 10
 Chemistry 2
 Physics 2
 German 2 or French B
 Gymnasium

Third Term

Mathematics 12
 Drawing 9
 Mech. Engineering 11
 Chemistry 3
 Physics 4
 German 3 or French C

JUNIOR YEAR

Philosophy 19
 Mathematics 13
 Mechanics 3
 Drawing 10
 Mech. Engineering 12
 Physics 5

Philosophy 27
 Mathematics 14
 Mechanics 4
 Drawing 11
 Mech. Engineering 13
 Physics 9
 Gymnasium

Philosophy 43
 Mech. Engineering 9
 Mechanics 6
 Drawing 12
 Mech. Engineering 14
 Physics 10

SENIOR YEAR

Mechanics 7	Mechanics 8	Thesis
Mech. Engineering 3	Mech. Engineering 4	Mech. Engineering 5
Mech. Engineering 6	Mech. Engineering 7	Mech. Engineering 8
Drawing 27†	Drawing 28†	Original Design
Mech. Engineering 15	Mech. Engineering 16	
	Gymnasium	

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 38	Mathematics 39	Mathematics 40
Drawing 1	Drawing 5	Drawing 6
Civil Engineering 25	Civil Engineering 26	Civil Engineering 27
English 1	English 2	English 3
French 1 or German 24	French 2 or German 25	French 3 or German 26
	Gymnasium	

SOPHOMORE YEAR

Mathematics 41	Mathematics 42	Mathematics 43
Mech. Engineering 19	Mech. Engineering 20	Mech. Engineering 21
Physics 1	Physics 2	Physics 4
*Social Science 12	*Political Science 12	*Political Economy 12
	Mech. Engineering 10	Mech. Engineering 11
	Gymnasium	

Also, of the following courses the subject not presented for entrance:

Chemistry 1	Chemistry 2	Chemistry 3
French A	French B	French C
German 1	German 2	German 3

JUNIOR YEAR

Mechanics 3	Mechanics 4	Mechanics 6
Mech. Engineering 12	Mech. Engineering 13	Mech. Engineering 14
Drawing 10	Drawing 11	Drawing 12
Physics 5	Physics 9	Physics 10
Physics 11	Physics 12	Physics 15
Physics 40	Physics 41	Physics 42
	Gymnasium	

*Or some other course, not technical, chosen with the approval of the head of the department.

†Students who desire to pursue Electrical Work may, if they so elect, substitute Physics 11, 12 and 15 for Drawing 27 and 28.

SENIOR YEAR

Mechanics 7
Mathematics 15
Physics 33
Physics 36
Physics 43
Thesis

Mechanics 8
Mathematics 16
Physics 34
Physics 44
Physics 45
Thesis
Gymnasium

Civil Engineering 11
Physics 21
Physics 35
Physics 46
Physics 47
Thesis

Courses of Instruction Arranged According to Departments

I. ANATOMY (COMPARATIVE)

- 15, 1, 35. *General Anatomy and Physiology*. Three hours. First, Second and Third Terms. Elective for Undergraduates.

Six hours of attendance. For general students as well as for those who expect to pursue other courses in the department. By means of laboratory work in gross and minute anatomy and physiology, it introduces the student to scientific methods, to the structure and function of the human body, and to the general principles of biology.

Professors GORHAM and TOWER

- 3, 4, 34. *Comparative Anatomy of Vertebrates*. Three hours. First, Second and Third Terms. Elective for Sophomores, Juniors and Seniors who have passed with credit in 35.

Six hours of attendance. Critical and comparative study of the vertebrate organs, with special attention to the structure of man. In addition to the regular lectures, occasional lectures by physicians and others who have given attention to certain special subjects. A limited number of students are permitted to attend the clinics at the Rhode Island Hospital.

Dr. WILLIAMS

2. *Invertebrate Dissection*. Three hours. First Term. Elective for students who have passed in 35.

Six hours of attendance. Practical laboratory course on the comparative anatomy of the lower animals.

Professor MEAD and Dr. WILLIAMS

[I. Anatomy (Comparative), continued.]

- 16, 17, 30. *Anatomy of the Nervous System*. Three hours. Through the year. Elective for Juniors, and Seniors who have passed with credit in 34. Not to be offered in 1903-04.

Six hours of attendance. Intended to acquaint the student with the gross anatomy and the microscopic structure of the nervous system in vertebrates, especially in man. Attention to the phylogeny, embryology and physiology of the nervous system and to special nerve-methods in micro-technic.

Professor MEAD

NOTE: This course alternates with 31, 32, 33.

- [31, 32, 33. *Comparative Embryology*. Three hours. Through the year. Elective for Juniors and Seniors who have passed with credit in 34 or 30.] Not offered in 1902-03. To be offered in 1903-04.

Six hours of attendance. Designed to give a general idea of the principles of embryological development, such as are involved in the phenomena of fertilization and cleavage of the egg, metamorphosis, organ formation, etc.

Professor MEAD

NOTE: This course alternates with 16, 17, 30.

- 18, 19, 20, 21. *Physiology*. Three hours. Third, First, Second and Third Terms. Elective for Juniors and Seniors who have passed in Chemistry 2.

Six hours of attendance. Third Term, the chemistry of the proteids, carbohydrates and fats; First Term, the chemistry of salivary, gastric and pancreatic digestions, and the blood and the bile; Second Term, the qualitative and quantitative analysis of certain constituents of the animal body; Third Term, physical physiology.

Professor TOWER

9. *Bacteriology*. Three hours. Second Term. Elective for Juniors and Seniors who have passed in 35.

Six hours of attendance. Preparation and microscopic study of bacteria, the preparation of culture media, isolation, systematic study and determination of unknown species, qualitative and quantitative biological examination of water, milk, air and soil; methods of determining pathogenic properties of bacteria; methods of sterilization and disinfection; special work on pathogenic forms.

Professor GORHAM

[I. Anatomy (Comparative), continued.]

25. *Biological Theories and Biological Problems.* Elective for Graduates.

Weekly seminary. A general discussion of biological theories and biological problems.

Professor MEAD

27. *Bacteriological Research.* Through the year. Elective for Graduates.

Laboratory work and seminary.

Professor GORHAM

28. *Advanced Physiology.* Through the year. Elective for Graduates who have sufficient knowledge of chemistry and physiology.

Laboratory work, supplemented by a weekly seminary at which German authors are read and discussed.

Professor TOWER

29. *Human Anatomy.* Elective for Graduates.

Laboratory instruction. In addition to the course in practical dissection, the students will have an opportunity to attend certain operations at the hospital and to be present at autopsies.

Dr. PERKINS and Dr. PEGRAM

36. *Bacteriology.* Three hours. First Term. Elective for students who have passed in 35.

Six hours of attendance. Intended for those who are pursuing Household Economics.

Professor GORHAM

37. *Hygiene.* Three hours. Second Term. Elective for those who have passed in 36.

Six hours of attendance. Intended for those pursuing Household Economics. Lectures with demonstrations or laboratory work. Municipal hygiene; home sanitation; composition, nutritive and money values of food-stuffs; personal hygiene. This work is conducted by specialists in the different branches of the subject. For 1902 Dr. C. V. Chapin, Miss Esther Stone, Professor R. W. Tower, Professor W. D. Atwater (Wesleyan University), Mrs. Ellen H. Richards (Massachusetts Institute of Technology), and Dr. H. G. Partridge will conduct the work.

Professor MEAD

[I. Anatomy (Comparative), continued.]

38. *Normal and Pathological Histology.* Third Term. Three hours. Elective for students who have passed in 9 or 36.

Six hours of attendance. Intended for students pursuing Household Economics or the Preparatory Medical Course.

Dr. FULTON

II. ART

Professor POLAND

1. *Ancient Art or Classical Archæology.* Three hours. First Term. Elective for Juniors, Seniors and Graduates.

A general course in the history of ancient art, chiefly Greek. Text-book; lectures illustrated by casts, slides, photographs and engravings; collateral reading.

NOTE: Courses 1, 4 and 6 may be taken independently, but students are advised to elect all three in the above order. Students are strongly advised to take 1, if possible, before any other course in the History of Art.

4. *Roman, Early Christian and Mediæval Art.* Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

Study of Roman, Romanesque and Gothic art, with some notice of Byzantine, Arabian and Oriental art.

6. *Art of the Renaissance.* Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

The fifteenth and sixteenth centuries. The effect on art of the dominant motives of the epoch, the development of art in the different countries of Europe, the great masters and their most significant works. Text-book, lectures, lantern views.

NOTE: Courses 6 and 7, 9 form a consecutive outline.

14, 15, 16. *Practical Work in Art.* Three hours. Through the year. Elective for students who are taking, or who have passed in Art 1, 4, 6, and who have also passed in Drawing 2, 3, 4.

Six hours of drawing or other practical work, to illustrate the principles of delineation, color and chiaroscuro, and the principles of design in architecture, sculpture and painting, as exemplified in the historic forms of art.

This course will be given at the Rhode Island School of Design.

[II. Art, continued.]

- 7, 9. *Modern Art*. Three hours. First and Second Terms. Elective for Juniors, Seniors and Graduates who have passed in 6.

First Term, the seventeenth and eighteenth centuries; Second Term, the nineteenth century.

8. *Theory and Criticism of the Fine Arts*. Three hours. Third Term. Elective for students who have passed in any course in Art.

A study of the more important facts and laws of artistic production.

10. *Seminary in Classical Architecture*. Elective for Graduates. Not to be offered in 1903-04.

Critical study; Vitruvius read in the original Latin; discussion of the principles followed by the Greek and Roman architects, and of the influence of Vitruvius in the Renaissance.

NOTE: Courses 10, 11 and 3 are critical courses in classical archæology, especially useful to those who wish to do advanced work in classical archæology, philology or history.

- [11. *Seminary in Greek and Roman Sculpture*. Elective for Graduates.] Not offered in 1902-03.

3. *Seminary Study of the Acropolis of Athens*. Elective for Graduates. Not to be offered in 1903-04.

Critical reading, in the Greek, of Pausanias' account of the Acropolis of Athens; lectures and illustrations.

- [12. *Seminary in Renaissance Art*. Elective for Graduates.] Not offered in 1902-03.

MUSICAL HISTORY AND THEORY

Professor ASHTON

- 1, 2, 3. *Harmony*. Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.

First Term, the construction and connection of chords, the writing of exercises; Second Term, modulation, non-harmonic notes, harmonization of melodies; Third Term, analysis of harmony in compositions by the best writers, the study of melody, the writing of compositions.

NOTE: Courses 1 to 9 inclusive are sequential and must be taken in order.

[II. Art, continued.]

- 4, 5, 6. *Counterpoint*. Three hours. Through the year.
Elective for students who have passed with credit in 1, 2, 3.

Study of the rules of simple and double counterpoint; constant practice in contrapuntal writing; analysis of works by the best contrapuntal writers.

- [7, 8, 9. *Composition*. Three hours. Through the year.
Elective for students who have passed with credit in 4, 5, 6.]
Not offered in 1902-03.

- [14. *Musical Introduction*. Three hours. Second Term.
Elective for Juniors and Seniors who have not passed in or who are not taking 10, 11, 12.] Not offered in 1902-03.

15. *Music and Musicians of the Nineteenth Century*. Three hours. Third Term. Elective for Juniors and Seniors who have not passed in or who are not taking 10, 11, 12.

A general course to acquaint the student with the life, works and style of Beethoven, Schubert, Schumann, Mendelssohn, Wagner and other famous composers of the nineteenth century.

- [10, 11, 12. *Structure and History of Music*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates.] Not offered in 1902-03.

Lectures on the history of music from the earliest times down to the present, accompanied by an analysis of representative compositions.

13. *Sacred Music*. Three hours. Third Term. Elective for Juniors and Seniors. Number of members limited to twelve.

The history of sacred music and a study of music in its application to religious worship. Designed for those who are to be intrusted with the direction of church music.

- 20, 21, 22. *The Symphony*. Three hours. Through the year.
Elective for Graduates.

Study of the evolution of the symphony orchestra and of the works of symphonists from Haydn to Brahms and Tschaiowsky.

III. ASTRONOMY

- 1, 2, 6. *General Course*. Three hours. Through the year. Elective for Juniors and Seniors who have passed in Mathematics 1, 2, 3.

Fundamental conceptions of the science, methods of professional study, and present state of our knowledge of the heavenly bodies. Young's *General Astronomy*, lectures and abstracts upon assigned topics. Designed as a culture course or as a preparation for technical work.

Professor UPTON

- 3, 4, 5. *Geodetic Astronomy*. Three hours. Through the year. Required of engineering students. Elective for Juniors and Seniors who have passed in Mathematics 1, 2, 3.

The application of astronomy to geodesy; use of the sextant, transit and zenith telescope for determining time, latitude, longitude and azimuth.

Professor SLOCUM

- 3, 18, 19. *Nautical Astronomy*. Three hours. Through the year. Elective for Juniors and Seniors who have passed in Mathematics 1, 2, 3.

The principles of navigation, the methods of determining the position of a ship at sea, together with the use of sextant, compass and chart for determining latitude, longitude, bearings and courses.

Professor SLOCUM

NOTE: Courses 3, 4, 5, and 3, 18, 19 cover in part the same ground and cannot both be taken by the same student, but either can be taken at the same time as the general course 1, 2, 6.

- 8, 9, 10. *Practical Astronomy*. Three hours. Through the year. Elective for Graduates and for Undergraduates who have shown special aptitude in either 1, 2, 6, or 3, 4, 5.

Advanced study of geodetic applications of astronomy; method of least squares. Doolittle's *Practical Astronomy*, with instrumental observations.

Professor UPTON

- 14, 15, 16. *Mathematical Astronomy*. Three hours. Through the year. Elective for Graduates.

The mathematical theory of planetary and cometary orbits; micrometer observations and calculation of orbits.

Professor UPTON

[III. Astronomy, continued.]

Offered only to Students of the Women's College

- 1w. *Meteorology*. Three hours. First Term. Elective for Sophomores, Juniors and Seniors. Not to be offered in 1903-04.

Professor SLOCUM

- 2w, 3w. *Physical Geography of the Sea and Land*. Three hours. Second and Third Terms. Elective for Sophomores, Juniors and Seniors. Not to be offered in 1903-04.

Professor SLOCUM

IV. BIBLICAL LITERATURE AND HISTORY

HEBREW

- 1, 2, 3. *Elementary Hebrew*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

Professor FOWLER and Mr. BROWN

- 16, 17, 18. *Historical Hebrew*. Three hours. Through the year. Elective for students who have completed Hebrew 1, 2, 3.

Reading of the books of Samuel and Kings with special attention to the acquisition of a vocabulary. Review of the grammar.

Professor FOWLER and Mr. BROWN

- 7, 8, 9. *Hebrew Seminary*. Three hours. Through the year. Elective for Graduates and qualified Undergraduates.

Subject for 1902-03: The Psalm Literature. Critical translation of the lyric poetry of the Old Testament and investigation of the characteristics of Hebrew poetry.

Professor FOWLER

NOTE: In succeeding years, corresponding courses in the Wisdom, Legal and Prophetic Literature of the Old Testament will be offered.

[IV. Biblical Literature and History, continued.]

ARAMAIC AND TALMUDIC

- 1, 2, 3. *Aramaic and Talmudic*. Two hours. Through the year. Elective for Seniors and Graduates who have completed Hebrew 1, 2, 3.

First Term, study of the grammar and reading of the Targum. Second Term, reading of all the Aramaic portions of the Old Testament. Third Term, Selected Mishnaic treatises, Pirke Aboth. A study of the ethical teachings of the Rabbis.

Mr. BROWN

ARABIC

- 1, 2, 3. *Elementary Arabic*. Two hours. Through the year. Elective for Seniors and Graduates.

Professor FOWLER

NEW TESTAMENT LANGUAGE AND LITERATURE

- 5, 1, 2. *Gospels and Epistles*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

A study of the characteristics of Hellenistic Greek. Translation and investigation of the questions of date, authorship and teachings. First Term, the Gospel and First Epistle of John. Second Term, the Gospel of Mark and the First Epistle of Peter. Third Term, the Gospels of Matthew and Luke.

Professor FOWLER and Mr. WHITFORD

NOTE: Each term may be elected separately.

- [7, 6, 3. *Acts and Epistles*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates.] Not offered in 1902-03.

First Term, Acts. Second Term, Thessalonians and Galatians. Third Term, Corinthians and Romans.

Professor FOWLER and Mr. WHITFORD

NOTE: Each term may be elected separately.

BIBLICAL LITERATURE AND HISTORY IN ENGLISH

- 4, 5, 6. *Hebrew History and Literature*. Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.

First Term, study of ancient Semitic and Egyptian History, civilization and religions that constitute the background of primitive Hebrew life and thought; interpretation of the prophetic and priestly narratives of the book of Genesis, and reconstruction of the outlines of early Hebrew history, in the light of the testimony of

[IV. Biblical Literature and History, continued.]

the monuments and primitive Hebrew traditions. Second Term, investigation of the political, social and religious life and development of the Hebrew people, from their settlement in Canaan to the division of the kingdom, special attention being given to the growth of institutions. Third Term, study of the history of the Hebrews between 937 and 586 B. C. in connection with the great political movements which affected the nations of southwestern Asia; investigation of the contents, peculiarities and aim of the Old Testament books which belong to the period; and interpretation of the character and work of the great Hebrew prophets in the light of their age.

Professor FOWLER

NOTE: Each term may be elected separately.

- [1, 2, 3. *Jewish and Early Christian History and Literature*. Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.] Not offered in 1902-03.

First Term, 586-165 B. C. Second Term, 165 B. C.-200 A. D. Third Term, the first century of Christianity.

Professor FOWLER

NOTE: Each term may be elected separately.

NOTE: Courses 1-6 in the English Bible are designed for general students as well as for those intending special Biblical work. They are not repeated in successive years, but form a two-years' consecutive course, giving a comprehensive view of the entire field of Biblical history. The sources, Biblical and monumental, for each epoch are studied; then the political, social and religious life and development. The date and authorship of books and the various other questions of literary history for each period are examined, and the teachings of the several documents are drawn out and formulated.

- 7, 8, 9. *English Bible Seminary*. Three hours. Through the year. Elective for graduates and qualified Juniors and Seniors.

Subject for 1902-03: Methods of Biblical composition. (a) Composition of the books of Chronicles. (b) Composition of the Hexateuch. (c) The Synoptic problem.

Professor FOWLER

Biblical Research Club. A Biblical Research Club, including graduate and undergraduate students, meets once a month for the review of new books and current literature, reading of papers and free discussion. Arrangements are also made for special addresses before the club.

V. BIBLIOGRAPHY

Mr. KOOPMAN

1. *Books and Libraries.* Three hours. Third Term. Elective for Seniors and Graduates. Number of members limited to twelve.

A general rather than technical course, being designed primarily for all users of libraries, but serving as an introduction for those intending to make library work a profession. Historical bibliography, manuscripts, printing, modern book-making, publishing, book-selling, book-buying, practical authorship; libraries, ancient and modern, their chief problems, management and use. Lectures by the instructor, oral reports and theses by the students.

VI. BOTANY

Professor BAILEY and Mr. COLLINS

- 1, 2, 3. *General Morphology, Physiology and Ecology.* Three hours. Through the year. Elective for Undergraduates.

Six hours of attendance. Comparative study of the seed, the seedling and the mature plant; variations due to environment; experiments in plant physiology, etc. Intended especially to train the student to observe and properly interpret the more obvious phenomena of plant life, as well as to furnish the necessary preparation for more advanced work.

Professor BAILEY and Mr. COLLINS

- [4, 5. *Histology and Physiology.* Three hours. First and Second Terms. Elective for students who have passed in 1, 2, 3.] Not offered in 1902-03.

Mr. COLLINS

- [14. *Medical Botany.* Three hours. Third Term. Elective for students who have passed in 5.] Not offered in 1902-03.

Professor BAILEY and Mr. COLLINS

NOTE: 4, 5, 14 will be offered in 1903-04; alternates with 7, 12, 9.

7. *Lower Cryptogams.* Three hours. First Term. Elective for students who have passed in 3.

Six hours of attendance. Comparative study of the structure and development of types of the algæ and lower fungi; collection and classification.

Mr. COLLINS

[VI. Botany, continued.]

12. *Higher Cryptogams*. Three hours. Second Term. Elective for students who have passed in 7.

Six hours of attendance. Structure, development and classification of the hepaticæ, mosses, ferns, horse-tails and club-mosses.

Professor BAILEY and Mr. COLLINS

9. *Mycology*. Three hours. Third Term. Elective for students who have passed the required examinations.

Six hours of attendance. Structure, development, collection, preservation and classification of edible, poisonous and other economic fungi; plant diseases.

Mr. COLLINS

NOTE: 7, 12, 9 offered in 1902-03 alternates with 4, 5, 14.

VII. CHEMISTRY

- 1, 2, 3. *Descriptive Chemistry*. Three hours. Through the year. Elective for Undergraduates.

Non-metals; metals, their metallurgy, compounds and practical applications; theoretical chemistry. Lectures with experiments, written exercises, individual laboratory work.

Professor BUCHER and Messrs. PARMENTER, CLARKE and SMITH

4. *Qualitative Analysis*. Three hours. First Term. Elective for Juniors.

Six hours of attendance. A study of the properties of the metallic elements together with their separation from certain of their compounds. Laboratory work, accompanied by recitations in qualitative analysis and in chemical philosophy, and exercises in stoichiometry.

Professor APPLETON and Mr. DUBOIS

5. *Qualitative Analysis, continued*. Three hours. Second Term. Elective for Juniors.

Six hours of attendance. A study of the principal non-metals and the acids formed by them as well as of the methods of separation and recognition of acids and acid radicles.

Professor APPLETON and Mr. DUBOIS

[VII. Chemistry, continued.]

6. *Quantitative Analysis*. Three hours. Third Term. Elective for Juniors.

Six hours of attendance. Study of quantitative precipitations and separations of the most important elements and compounds; a somewhat thorough review of the principles upon which quantitative apparatus is constructed, including the theory of the chemical balance, the merits of the different systems of weights and measures, the use of burettes, graduated flasks, etc.; studies in chemical philosophy and stoichiometry continued. Chiefly laboratory work.

Professor APPLETON and Mr. DUBOIS

- 7, 8, 9. *Quantitative Analysis, advanced*. Six hours. Through the year. Elective for Seniors and Graduates who have passed in 1-6.

Twelve hours of attendance. The assaying of metallic ores, analysis of agricultural materials, including commercial fertilizers, the testing of chemicals used in textile establishments, etc.

Professor APPLETON and Mr. DUBOIS

- 10, 11, 12. *Organic Chemistry*. Six hours. Through the year. Elective for Seniors and Graduates who have passed in 1-6.

Lectures, recitations and laboratory work. An extended series of exercises in the preparation and quantitative analysis of organic compounds, so selected as fairly to represent the different branches of this department. First and Second Term, three lectures a week and three laboratory periods a week.

Professor BUCHER and Mr. CLARKE

13. *Assaying*. Six hours. Third Term. Elective for Seniors and Graduates who have passed in 1-6.

Twelve hours of attendance.

Professor APPLETON and Mr. DUBOIS

23. *The Scouring and Dyeing of Wool*. Six hours. Third Term. Elective for Seniors and Graduates.

Twelve hours of attendance. The cleansing of wool in the fleece, removal of burrs, preparation and use of mordants, dye-stuffs, etc.

Professor APPLETON and Mr. DUBOIS

- 31, 32, 33. *Industrial Chemistry*. One, Two or Three Terms. Elective for Graduates.

Lectures and laboratory work.

Professor APPLETON

[VII. Chemistry, continued.]

- [41, 42, 43. *Physical Chemistry*. Three hours. Through the year. Elective for Graduates.] Not offered in 1902-03. To be offered in 1903-04.

Lectures and laboratory work.

Professor BUCHER

- 51, 52, 53. *Organic Chemistry, advanced course*. For Graduates. Not to be offered in 1903-04.

Professor BUCHER

- 61, 62, 63. *Inorganic Chemistry, advanced course*. Elective for Graduates. Not to be offered in 1903-04.

Professor BUCHER

- 71, 72, 73. *Organic Preparations, advanced course*. Three hours. Through the year. Elective for Graduates.

Professor BUCHER

- 81, 82, 83. *Inorganic Preparations, advanced course*. Three hours. Through the year. Elective for Graduates.

Professor BUCHER

- 91, 92, 93. *Research work in Chemistry*. Three hours. Through the year. Elective for Graduates.

Professor BUCHER

VIII. DRAWING

1. *Elementary Mechanical Drawing*. Four hours. First Term. Required of Freshmen who are candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering.

Two hours of recitation and four hours of drawing. Nature, care and use of drafting instruments; problems in descriptive geometry. Largely mathematical.

Professor RANDALL

16. *Elementary Mechanical Drawing*. Three hours. First Term. Elective for Sophomores, Juniors and Seniors, and for Freshmen, candidates for the degree of Bachelor of Philosophy.

One hour of recitation and five hours of drawing. Nature, care and use of drafting instruments; elements of orthographic and isometric projection.

Professor RANDALL and Mr. CEDERBERG

[VIII. Drawing, continued.]

5. *Descriptive Geometry*. Four hours. Second Term. Required of Freshmen who are candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering. Elective for students who have passed in 1.

Three hours of recitation and two hours of drawing. Theory of orthographic and scenographic projection; discussion, proof and graphic solution of theoretical and practical problems; presentation of principles involved in the solution of engineering problems.

Professor RANDALL

6. *Descriptive Geometry*. Four hours. Third Term. Required of Freshmen who are candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering. Elective for students who have passed in 5.

Three hours of recitation and two hours of drawing. Application of the principles of descriptive geometry in shades and shadows and perspective, in machine drawing and in practical engineering problems.

Professor RANDALL

- 17, 18. *Descriptive Geometry*. Three hours. Second and Third Terms. Elective for Freshmen, candidates for the degree of Bachelor of Philosophy, Sophomores, Juniors and Seniors who have passed in 1 or 16.

Two hours of recitation and two hours of drawing. Theory of orthographic and scenographic projection. A continuation of 16.

Professor RANDALL

7. *Shades and Shadows and Perspective*. Three hours. First Term. Elective for students who have passed in 5 or 18.

Two hours of recitation and two hours of drawing. Derivation and proof of theoretical and practical formulæ. Based on descriptive geometry, largely mathematical.

Professor RANDALL

14. *Shades and Shadows and Perspective, advanced*. Three hours. Third Term. Elective for students who have passed in 7.

Six hours of drawing. Derivation and application of theoretical and practical formulæ. Perspective of shadows. Arranged for students in architecture.

Professor RANDALL

[VIII. Drawing, continued.]

8. *Elementary Machine Drawing*. Three hours. Second Term. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in 5, 6, or 17, 18.

One hour of recitation and five hours of drawing. Presentation of conventional methods of representing the parts of machines; explanation of machines in detail; sketches, detail and assembly drawings.

Mr. PHETTEPLACE

9. *Gearing*. Three hours. Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Mechanical Engineering 1, and in Drawing 5, 6, or 17, 18. Not to be offered after 1902-03.

One hour of recitation and four hours of drawing. Lectures and recitations on the theory of spur, bevel and screw gearing; accurate construction, in the drawing room, of illustrative problems.

Mr. PHETTEPLACE

- 10, 11. *Machine Drawing, advanced*. Three hours. First and Second Terms. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Mechanical Engineering 19, 20 and 21.

One hour of recitation and five hours of drawing. Sketches, detail and assembly drawings of complicated machines.

Mr. PHETTEPLACE

12. *Elements of Machine Design*. Three hours. Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Mechanical Engineering 1, and in Drawing 10, 11.

Six hours of drawing. Design of the simpler mechanisms.

Mr. PHETTEPLACE

- 27, 28. *Machine Design, advanced*. Three hours. First and Second Terms. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in 10, 11 and 12, and in Mechanics 3, 4 and 6.

One hour of recitation and four hours of calculation and drawing. Extended problems in design, involving the calculation of the strength of the various parts of machines and structures.

Professor KENERSON and Mr. PHETTEPLACE

[VIII. Drawing, continued.]

15. *Constructive Geometry*. Three hours. Through the year. Elective for students who have passed in 1 or 16.

Six hours of drawing. Derivation, graphical test and proof of original methods of solving plane and solid geometrical problems. Mathematical. Professor RANDALL and Mr. CEDERBERG

13. *Constructive Geometry*. Four hours. First Term. For Freshmen who have had the equivalent of 1.

Eight hours of drawing. Similar to 15.

Professor RANDALL and Mr. CEDERBERG

- 19, 20. *Mechanical Drawing*. Three hours. Second and Third Terms. Elective for students who have passed in 16.

For students desiring to continue their course in drawing without taking the theoretical work of descriptive geometry. Six hours of drawing. Advanced orthographic and isometric projection with numerous practical applications.

Professor RANDALL and Mr. CEDERBERG

- 21, 22. *Architectural Drawing*. Three hours. Second and Third Terms. Elective for Sophomores, Juniors and Seniors who have passed in Drawing 7.

Six hours of drawing. Principles of architectural design and composition. Working drawings and ordinary office practice. Given at the Rhode Island School of Design.

Professor HOMER of the Rhode Island School of Design

- 2, 3, 4. *Freehand Drawing*. One hour. Through the year. Elective for all students.

Two hours of drawing. Training of hand and eye by progressive study of models of machine parts, casts of ornamental forms, and still-life objects. Given at the Rhode Island School of Design.

Messrs. TOLMAN, NISBET and BLANCHARD

IX. ENGINEERING (CIVIL)

- 1, 2, 3. *Surveying*. Three hours. (Usually six hours of field work or drafting). Through the year. Elective for students who have passed in Mathematics 1, 2 and 3, and in Drawing 1 to 16.

Elementary course in land surveying; use of tape, compass, level and transit; adjustment of instruments. Lectures, recitations, field work and drawing.

Professor HILL and Mr. BLANCHARD

IX. Engineering (Civil), continued.]

NOTE: All courses in this department are required of candidates for the degree of Civil Engineer; all except 4, 25, 26, 27 are elective for other students.

4. *Topographical Drawing*. Three hours. (Six hours drafting.) Second Term.

Pen and colored topography, conventional signs for maps.

Mr. BLANCHARD

- 8, 8a. *Surveying, advanced*. One hour and five hours. Third Term. Elective for students who have passed in 1 and 2, but 8 and 8a cannot be elected separately.

Topography and hydrography, city surveying; use of stadia, plane table, sextant and barometer; precise base-line measurements with steel tape. Methods as in 1, 2, 3. The field work (8a) is done during the spring recess.

Professor HILL and Mr. BLANCHARD

- 5, 5a, 6, 7. *Railroad Engineering*. Two, four (eight hours field work), three and three hours. First, Second and Third Terms. Elective for students who have passed in 3 and 8, but 5 and 5a cannot be elected separately.

Theory, location, construction and economics. Methods as in 1, 2, 3.

Professor HILL and Mr. BLANCHARD

10. *Hydraulic Engineering*. Three hours. Second Term. Elective for Juniors and Seniors.

Consideration of water supply mainly from a sanitary standpoint. Lectures, recitations and seminary work.

Professor HILL

11. *Hydraulic Engineering*. Three hours. Third Term. Elective for students who have passed in Mathematics 13 and Mechanics 4.

Supplements the courses in Mechanics 7 and 8, which give the theoretical treatment of the subject. Consideration of water supply mainly from an engineering standpoint; irrigation, pumps, and pumping machinery. Lectures, recitations and seminary work.

Professor HILL

[IX. Engineering (Civil), continued.]

16. *Geodesy*. Three hours. (One hour recitation and five hours computations.) Second Term. Elective for students who have passed in 3 and 8 and Astronomy 4.

Problems in geodetic surveying. Lectures and computations.

Professor HILL

17. *Sanitary Engineering*. Three hours. Third Term. Elective for students who have passed in Mathematics 13, Mechanics 4 and Drawing 6.

Sewerage and house drainage. Lectures, recitations and seminary work.

Professor HILL

18. *Roads and Pavements*. Three hours. Third Term. Elective for Sophomores, Juniors and Seniors.

Professor HILL

- [19, 20, 21. *Laboratory Investigations*. Three hours. Through the year. Elective for students who have passed in Mathematics 13, Mechanics 4 and Drawing 6.] Not offered in 1902-03.

Use and adjustment of instruments, testing materials, stereotomy.

Professor HILL

NOTE: For 1902-03 students in Civil Engineering will take Mechanical Engineering 6 and 7 in place of Civil Engineering 19 and 20.

- 25, 26, 27. *Lettering*. One hour. (Two hours drafting.) Through the year.

Professor HILL

28. *Framed Structures*. Three hours. Third Term. Elective for students who have passed in Mathematics 13, Mechanics 4 and Drawing 1 or 16.

Calculation of stresses in roofs and bridges by analytical methods. Lectures, recitations and seminary work.

Mr. BLANCHARD

29. *Structural Details*. Three hours. First Term. Elective for Juniors, Seniors and Graduates who have passed in Mathematics 13, Mechanics 4 and Drawing 1 or 16.

Lectures and computations.

Mr. BLANCHARD

[IX. Engineering (Civil), continued.]

30. *Roof Design and Graphic Statics*. Three hours. (Six hours drafting.) First Term. Elective for students who have passed in 28, 29.

Drawing and computations.

Mr. BLANCHARD

31. *Bridge Design*. Six hours. (Twelve hours drafting.) Second Term. Elective for students who have passed in 30.

Drawing, computations and field excursions. Design of plate girders, riveted and pin-connected trusses, with working drawings.

Mr. BLANCHARD

32. *Bridges*. Two hours. Third Term. Elective for students who have passed in 28.

Theory of cantilever, draw, continuous, suspension, and arched structures. Lectures, recitations and seminary work.

Mr. BLANCHARD

34. *Mineralogy*. Three hours. Third Term. Elective for Juniors and Seniors.

Determinative and descriptive mineralogy. Blowpipe and chemical analysis. Lectures on the economic effect of minerals in building-stones.

Mr. BLANCHARD

35. *Municipal Improvements*. Three hours. First Term. Elective for Juniors and Seniors.

The economic and social aspects of sewerage, water works, pavements, etc.

Professor HILL

- 36, 37. *Masonry Structures*. One hour. Three hours. (One hour recitation and four hours drafting.) Second and Third Terms. Elective for students who have passed in Mechanics 6 and Drawing 6.

Theory and design of masonry and concrete-steel arches, dams, bridge piers, etc. Stereotomy.

Mr. BLANCHARD

38. *Foundations*. Two hours. Second Term. Elective for students who have passed in 29.

Mr. BLANCHARD

[IX. Engineering (Civil), continued.]

39. *Contracts and Specifications*. One hour. Third Term. Elective for students in Mechanical and Electrical Engineering.

Lectures and discussions on the principles of Common Law as applied to contracts.

Mr. BLANCHARD

X. ENGINEERING (MECHANICAL)

- 19, 20, 21. *Kinematics*. Three hours. Through the year. Required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Elective for students who have passed in Drawing 5, 6, or 17, 18.

Analytical study of mechanical devices used in machines, theory of spur, bevel and screw gearing, design of cams. Each student is required to read before the class a paper describing some important mechanism. Lectures, recitations and elementary machine drawing.

Mr. PHETTEPLACE

- 3, 4, 5. *Steam Engineering*. Three hours. Through the year. Required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Elective for students who have passed in 9.

Principles of heat engines and generators; methods of testing. Lectures, recitations and laboratory.

Professor KENERSON

- 6, 7. *Materials of Engineering*. Three hours. First and Second Terms. Required of candidates for the degree of Bachelor of Science in Mechanical and in Civil Engineering. Elective for students who have passed in Mechanics 3, 4, 6.

Study of the sources, manufacture and properties of important materials used in engineering; laboratory tests on the strength of materials.

Professor KENERSON

8. *Power Plant Engineering*. Three hours. Third Term. Required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Elective for students who have passed in 3, 4, 5, 6, 7.

Lectures, recitations and tours of inspection.

Professor KENERSON

[X. Engineering (Mechanical), continued.]

- 9, 9a, 9b. *Thermodynamics of the Steam Engine*. Three hours. Through the year. (Third Term in 1903.) Required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Elective for students who have passed in Physics 1, 2, 4, and in Mathematics 12, 13, 14.

Principles of gases and vapors as applied to the steam engine and other heat engines.

Professor KENERSON

- [22. *Advanced Engineering Laboratory*. Three hours. First Term.] Not offered in 1902-03.

Professor KENERSON

- 10, 11, 12. *Wood-work*. Three hours. Required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Elective for Sophomores, Juniors and Seniors.

Six hours of attendance. Carpentry, wood-turning, and pattern-work. These courses may be begun in any term.

Mr. CADY

NOTE: Though courses 10 to 18 are all open to Sophomores, Juniors and Seniors, no more than two of them may be counted towards the degree of Bachelor of Arts or Bachelor of Philosophy.

- 13, 14, 15, 16. *Metal-work*. Three hours. Required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Elective for Sophomores, Juniors and Seniors.

Six hours of attendance. Chipping, filing, and work with the engine-lathe, planer, shaper, milling-machine, vertical drill and surface-grinder. These courses may be begun in any term. See note under 10, 11, 12.

Mr. STARK

17. *Wood-work*. Three hours. Elective during any term for Sophomores, Juniors and Seniors.

Six hours of attendance. Carpentry and wood-turning. Intended for students who wish to take only one term of wood-work. See note under 10, 11, 12.

Mr. CADY

[X. Engineering (Mechanical), continued.]

18. *Metal-work*. Three hours. Elective during any term for Sophomores, Juniors and Seniors.

Six hours of attendance. Chipping, filing and lathe-work. Intended for students who wish to take only one term of metal-work. See note under 10, 11, 12.

MR. STARK

Thesis. A graduation thesis is required of all students who are candidates for the degree of Bachelor of Science in Mechanical Engineering. It may be based either on extended independent study, on original experiments by the student, or on an original design of some complicated machine. In any case it must exhibit satisfactory ability in the student as an engineer.

NOTE: Frequent excursions designed to supplement the classroom instruction are made to neighboring manufacturing concerns, power houses and other points of interest.

MECHANICS

Professor CLARKE

- 3, 4, 6. *Mechanics of Solids*. Three hours. Through the year. Elective for students who have passed in Mathematics 9, 10 and 12, and who are taking Mathematics 13.

Statics; dynamics, including rectilinear and curvilinear motion, virtual velocity, moment of inertia, work, energy and power, friction; strength of materials, including tension, compression, shearing, torsion, flexure, arches and methods of graphical solution of problems.

- 7, 8. *Mechanics of Fluids*. Three hours. First and Second Terms. Elective for students who have passed in 3, 4, 6.

Hydrostatics of liquids, including pressure of liquids in tanks and reservoirs, earth pressure and retaining walls, immersion and flotation; hydrodynamics, including steady flow, impulse and resistance.

NOTE: Courses 3, 4, 6, and 7, 8 cover essentially the same ground as Church's *Mechanics of Engineering*, supplemented by a large number of original problems illustrative of the principles under the different conditions which arise in their application.

XI. ENGLISH LITERATURE AND LANGUAGE

NOTE: Credit for entrance English is a prerequisite to admission to any English course. This rule applies to special students as well as to candidates for a degree.

The second term of a course is not open to students who have not taken the first term of the course, nor the third term to those who have not taken both the first and the second term of the course.

- 1, 2, 3. *Rhetoric and Composition*. Three hours. Through the year. Required of all Freshmen.

Professors DAMON, BENEDICT and HUNTINGTON, Messrs. LATHAM, CHASE, HERSEY AND GUILD

- 4, 5, 6. *Argumentative Composition*. One hour. Through the year. Required of all Juniors.

The class will meet twice a week at first, but the total number of sessions will not exceed the usual number in a one-hour course.

Professors DAMON and HUNTINGTON, assisted by Professor BENEDICT and Messrs. LATHAM and KRAFFT

NOTE: Credit for courses 2, 3 is a prerequisite to 4, 5, 6.

- 7, 8, 9. *English Composition, advanced*. Three hours. Through the year. Elective for a limited number of Undergraduates who have passed in 1, 2, 3.

Professor DAMON

- 11, 12. *Debate*. Three hours. Second and Third Terms. Elective for a limited number of Juniors and Seniors who have passed in at least one term of argumentation.

Each student is expected to take part, as a principal disputant, in three debates each term. The class will meet once or twice a week, according to the number of members.

Juniors may substitute 11 for 5, 6.

Professor HUNTINGTON, with the co-operation of the Professors of Political Economy, Social and Political Science, History, and Public Speaking.

- 13, 14, 15. *Public Speaking*. Three hours. Through the year. Elective for all Undergraduates.

General theory, vocal interpretation of literature, extempore speaking and original written orations. During the first and second terms one extra hour a week will be required for practice work.

Professor CROSBY

[XI. English Literature and Language, continued.]

16, 17, 18. *English Literature, introductory.* Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.

Designed to cultivate an intelligent appreciation of the greater poets and prose writers, and to give a general knowledge of the history of English literature.

Professor BRONSON

19, 20, 21. *Old English.* Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

The essentials of Anglo-Saxon grammar. Prose selections. Béowulf.

Professor DAMON

25, 26, 27. *Chaucer.* Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

In the first and second terms the work will be mainly linguistic, aiming to enable the student to read Chaucer intelligently. The third term will be devoted to somewhat rapid reading in Chaucer, Langland and Gower, and to the study of Chaucer's art as poet and metrist, and of his influence on English poetry.

Professor POTTER

NOTE: Advanced courses in Old English, Middle English and Historical Grammar will be offered by Professor Potter according to the needs of qualified students.

31, 32, 33. *English Literature, exclusive of the Drama, from 1400 to 1600.* Three hours. Through the year. Elective for students who have passed in 16, 17, 18. Not to be offered in 1903-04.

Mediæval literary forms and the transition to the modern period: romance, ballad, allegory, satire, miracle-play, the beginning of prose, Elizabethan novels and lyrics.

Professor BENEDICT

[34, 35, 36. *English Literature, exclusive of the Drama, from 1600 to 1660.* Three hours. Through the year. Elective for students who have passed in 16, 17, 18.] Not offered in 1902-03.

The course will centre in Milton.

Professor BRONSON

[XI. English Literature and Language, continued.]

- 40, 41, 42. *Shakspeare*. Three hours. Through the year. Elective for Juniors and Seniors. Not to be offered in 1903-04.

The aim of the course is to develop the power to read Shakspeare with intelligent appreciation. A small number of plays will be studied carefully with special attention to exact interpretation and to those peculiarities of language in which Shaksperian usage differs from our own.

Professor POTTER

- [67, 68, 69. *Shakspeare*. Three hours. Through the year. Elective for students who have passed in 16, 17, 18.] Not offered in 1902-03.

A literary course, intended for purposes of general culture. All the plays will be read.

Professor POTTER

- 46, 47, 48. *English Literature from 1660 to 1798*. Three hours. Through the year. Elective for students who have passed in 16, 17, 18. Not to be offered in 1903-04.

Dryden, Bunyan, Addison, Swift, Pope, Thomson, Defoe, Richardson, Fielding, Smollett, Sterne, Gray, Collins, Johnson, Goldsmith, Cowper, Sheridan, Burke, Burns and Blake, with some attention to lesser writers. Lectures on the life of the times, the Restoration drama, the development of the essay and the novel, and the beginnings of romanticism. Special papers on selected topics.

Professor BRONSON

- 49, 50, 51. *English Literature from 1798 to 1832*. Three hours. Through the year. Elective for students who have passed in 16, 17, 18. Not to be offered in 1903-04.

Wordsworth, Coleridge, Byron, Shelley, Keats, Hazlitt, Lamb, De Quincey, Jane Austen and Scott, with some attention to lesser authors.

Professor POTTER

- 55, 56, 57. *English Literature from 1832, the Poets*. Three hours. Through the year. Elective for students who have passed in 16, 17, 18. Not to be offered in 1903-04.

First and Second Terms, Tennyson and Browning; Third Term, Mrs. Browning, Arnold, Swinburne, Rossetti, Morris and others.

Professor CROSBY

[XI. English Literature and Language, continued.]

[58, 59, 60. *English Literature from 1832, the Essayists and the Novelists*. Three hours. Through the year. Elective for students who have passed in 16, 17, 18.] Not offered in 1902-03.

A study of the chief tendencies of English thought as reflected in the prose writers of the period.

Professor POTTER

61, 62, 63. *American Literature*. Three hours. Through the year. Elective for students who have passed in 16, 17, 18.

The colonial and national periods of American literature, and a comparative view of American and English literature during three centuries; with occasional lectures on literary criticism, as an assistance in making weekly reports on required reading.

Professor SEARS

64, 65, 66. *Seminary in English Literature*. Three hours. Through the year. Elective for Graduates, and for Seniors who have passed with credit in two or more courses in English literature. Number of members limited to twelve.

Subject in 1902-03: Methods of literary study, with investigation of various special problems.

Professor BRONSON

XII. GERMANIC LANGUAGES AND LITERATURES

GERMAN

1, 2, 3. *Introductory Course*. Three hours. Through the year. Required of all students not presenting German for admission.

Reading from the first; grammar; composition; dictation; sight reading. Selections in prose and poetry from standard authors.

Messrs. THOMPSON, NORRIS and SHERMAN

24, 25, 26. *Intermediate Course*. Three hours. Through the year. Required of all Freshmen presenting elementary German for admission.

Selected works of classical and modern authors. Study of syntax based upon the text.

Mr. THOMPSON

[XII. Germanic Languages and Literatures, continued.]

4, 6, 8. *The Drama of the Classic Period*. Three hours. Through the year. Elective for students who have passed in 1, 2, 3.

Lessing, Schiller, Goethe. Two dramas of each author. Recommended to the general student of German. An introduction to the best literature, the linguistic side of the study being also kept in sight.

Professors CROWELL and JONAS

5, 7, 9. *Modern Prose*. Three hours. Through the year. Elective for students who have passed in 1, 2, 3.

Varies in details from year to year; presents representative pieces of the best nineteenth century authors in history, biography, legend and fiction. Valuable for students using German sources in other subjects. Sight reading a prominent feature. Parallel to 4, 6, 8.

Professor JONAS

[34, 35, 36. *Advanced Course in Standard Authors*. Three hours. Through the year. Elective for students who have passed in 24, 25, 26 and for those presenting advanced German for admission.] Not offered in 1902-03.

40, 41, 42. *Composition*. One hour. Through the year. Elective only for students pursuing the regular courses of the second or third year in German, and for those who have passed in 48.

Most appropriately taken in connection with 4, 6, 8 or 5, 7, 9. Hours for conversation are appointed.

Professors CROWELL and JONAS

43, 44, 45. *Advanced Composition*. One hour. Through the year. Elective for students who have passed in 42 and who are pursuing or have completed third year courses.

Original themes.

Professor JONAS

46, 47, 48. *German Masterpieces I*. Three hours. Through the year. Elective for students who have passed in 8 or 36. Not to be offered in 1903-04.

Goethe's *Faust*, Parts I and II, with a glance at recent dramas of kindred interest. With 49, 50, 51 presents the productions of the great German writers which deal with important psychological and moral problems.

Professor CROWELL

[XII. Germanic Languages and Literatures, continued.]

[49, 50, 51. *German Masterpieces II*. Three hours. Through the year. Elective for students who have passed in 8 or 36.] Not offered in 1902-03. To be offered in 1903-04.

Wolfram von Eschenbach's *Parzival*, Lessing's *Nathan der Weise*, Schiller's *Wallenstein*.

16, 17, 18. *German Literature*. Three hours. Through the year. Elective for students who have passed in 36, 48 or 51.

The principal literary movements in Germany from the earliest times to the present. Lectures, reports on assigned topics, extended reading. Subject for 1902-03: A general view of German Literature from the fourth to the nineteenth century.

Professor CROWELL

[10, 11, 12. *Middle High German*. Three hours. Through the year. Elective for Graduates and qualified Undergraduates.] Not offered in 1902-03. To be offered in 1903-04.

[28, 29, 30. *Germanic Mythology*. One hour. Through the year. Elective for all who read German with facility.] Not offered in 1902-03. To be offered in 1903-04.

31, 32, 33. *Germanic Philology*. One hour through the year. Elective for graduates. Not to be offered in 1903-04.

Discussion based on Paul's *Grundriss der Germanischen Philologie*.

Professor CROWELL

52, 53, 54. *German Poetry*. Three hours. Through the year. Elective for students who have passed in 48. To be omitted in 1903-04.

Comparative study of representative poems. First Term, epics; Second Term, lyrics; Third Term, ballads.

Professor JONAS

61, 62, 63. *Research in German Literature*. Three hours. Through the year. Elective for students who have passed in 18 or 48.

Six hours of attendance in the Seminary Library. Investigation of problems specially assigned; themes and reports.

Professor CROWELL

[XII. Germanic Languages and Literatures, continued.]

OLD NORSE

- [1, 2, 3. Two hours. Through the year. Elective for Graduates.] Not offered in 1902-03. To be offered in 1903-04.

GOTHIC

- 1, 2, 3. Two hours. Through the year. Elective for Graduates. Not to be offered in 1903-04.

Discussion of East Germanic languages and of Gothic etymology. Reading of extracts in Streitberg's *Gotisches Elementarbuch*, or Braune's *Gotische Grammatik*. Students electing Gothic should also take Germanic Philology.

Professor CROWELL

XIII. GREEK LITERATURE AND HISTORY

- A, B, C. *Elementary*. Three hours. Through the year.

For the benefit of those who have not taken Greek before entering college. Aims to cover, with mature students, as much as possible of the entrance requirements in Greek. Such students should be able to make sufficient progress during the academic year in reading Xenophon to be able, by private study during the following long vacation, to complete four books of the *Anabasis* before the beginning of the next academic year. They might then take up with the Freshman class the reading of the regular prose Greek, and, by additional study, complete before the following spring term the entrance requirements in Homer, and thus be enabled to continue with the Freshman class in Homer also.

Mr. HALLETT

1. *Lysias*. Three hours. First Term. Elective for students who presented elementary and advanced Greek for entrance, or who have taken Greek A, B, C.

Lysias, select orations and practice in sight reading.

Professors MANATT and ALLINSON

2. *Plato*. Three hours. Second Term. Elective for students who have taken Greek 1 or its equivalent.

Plato's Apology and Crito, with other selections for sight reading.

Professors MANATT and ALLINSON

[XIII. Greek Literature and History, continued.]

3. *Homer*. Three hours. Third Term. Elective for students who have taken Greek 1 and 2 or equivalents.

The *Odyssey*, four books, rapid reading of other books; lectures on the life of the Heroic Age as revealed in the poems and illustrated by recent archæological research.

Professors MANATT and ALLINSON

46. *Greek Life*. Three hours. First Term. Elective for Freshmen and Sophomores.

A study of the private and public life of the Greeks in the light of their literature and monuments. Syllabus, lectures and prescribed reading, with frequent reports, written tests and a thesis. No knowledge of Greek or Latin is required. The course is continued in the Second and Third Terms as Latin 46, 47. The three terms together constitute the course called History of Greek and Roman Life and Institutions.

Professor MANATT

4. *Herodotus*. Three hours. First Term. Elective for Sophomores.

Books VI and VII, with collateral reading in English of the *Persians* of Æschylus and the *Themistocles* and *Aristides* of Plutarch.

Professor MANATT

5. *Lucian*. Three hours. Second Term. Elective for Sophomores.

Selections from Lucian.

Professor ALLINSON

6. *Dramatic Poets*. Three hours. Third Term. Elective for Sophomores.

Lectures on the Greek Drama; the *Prometheus* of Æschylus; the *Clouds* of Aristophanes.

Professor ALLINSON

- [7, 8, 9. *Historians*. Three hours. Through the year. Elective for Juniors, and Seniors who have completed 1-6 or equivalent work.] Not offered in 1902-03.

Professor MANATT

- [10. *Isæus*. Three hours. First Term. Elective for students who have completed 1-6 or equivalent work]. Not offered in 1902-03.

Professor MANATT

[XIII. Greek Literature and History, continued.]

- [11. *Demosthenes*. Three hours. First Term. Elective for Graduates.] Not offered in 1902-03.

Private Speeches, selected to illustrate the workings of Athenian institutions.

Professor MANATT

- [12. *Demosthenes*. Three hours. Second Term. Elective for Juniors and Seniors.] Not offered in 1902-03.

Speeches on the Crown; study of the Macedonian period and of Athenian political life.

Professor MANATT

- [13, 14, 15. *Homer*. Three hours. Through the year. Elective for Juniors and Seniors.] Not offered in 1902-03.

The *Odyssey*, portions of the *Iliad* and the *Hymns* in the original, the remainder of the poems in translation.

Professor MANATT

16. *Plato and Æschylus*. Three hours. First Term. Elective for Juniors and Seniors.

Republic, book x; selections from books I-IX.
Agamemnon.

Professor ALLINSON

17. *Hesiod and the Homeric Hymns*. Three hours. Second Term. Elective for Juniors and Seniors.

Professor MANATT

18. *Theocritus*. Three hours. Third Term. Elective for Juniors and Seniors.

Professor MANATT

- 23, 24. *Modern Greek*. One hour. Second and Third Terms. Elective for Sophomores, Juniors and Seniors.

Professor MANATT

- [28. *Lucian*. Three hours. First Term. Elective for Juniors and Seniors.] Not offered in 1902-03.

Professor ALLINSON

- [44. *Homer*. Three hours. Third Term. Elective for Juniors and Seniors.] Not offered in 1902-03.

Professor MANATT

[XIII. Greek Literature and History, continued.]

- [45. *The Drama*. Three hours. First Term. Elective for Juniors and Seniors.] Not offered in 1902-03.

The *Medea* of Euripides and the *Frogs* of Aristophanes; with rapid reading of one play of Æschylus for literary criticism.

Professor ALLINSON

- 43, 47. *Greek Composition, advanced*. One hour. Second and Third Terms. Elective for Sophomores, Juniors and Seniors.

Practice in prepared and in extemporaneous writing of Greek. For those who intend to teach or otherwise to specialize in the classics.

Professor ALLINSON

- [25, 26. *Thucydides*. One two-hour session weekly. First and Second Terms. Elective for Graduates and approved Seniors.] Not offered in 1902-03.

Professor MANATT

- [32. *Attic Orators*. Two hours. First Term. Elective for Graduates and approved Seniors.] Not offered in 1902-03.

Isæus. Greek historical inscriptions.

Professor MANATT

- 34, 35, 36. *Greek Seminary*. One two-hour session weekly. Through the year. Elective for Graduates and approved Seniors.

First Term (b) Lucian.

Second Term (b) Theognis of Megara, Simonides of Keos, Semonides of Amorgos.

Third Term (a) Herondas, and the *Characters* of Theophrastus.

Professor MANATT (a) and Professor ALLINSON (b)

- 41, 42. *Homer and Mycenæan Archæology*. Two hours. First and Second Terms. Elective for Graduates and approved Seniors.

Professor MANATT

XIV. HISTORY

EUROPEAN HISTORY

Professor MUNRO

1. *General Mediæval History of Europe*. Three hours. First Term. Required of all Juniors who are candidates for the degree of Bachelor of Arts or Bachelor of Philosophy.

[XIV. History, continued.]

2. *General Modern History of Europe.* Three hours. Second Term. Required of all Juniors who are candidates for the degree of Bachelor of Arts or Bachelor of Philosophy.

NOTE: In Courses 1 and 2 a text-book is used, mainly as a syllabus. Daily lectures supplement this work. Reports on assigned topics are required from all students. The other courses in European History are lecture courses.

18. *Spanish History.* Three hours. First Term. Elective for Juniors, Seniors and Graduates.

- [15. *Islam and the Crusades.* Three hours. First Term. Elective for Juniors, Seniors and Graduates.] Not offered in 1902-03.

- 3 *The Period of the Reformation.* Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

- [11. *The Period of the Renaissance.* Three hours. Second Term. Elective for Juniors, Seniors and Graduates.] Not offered in 1902-03.

16. *The French Revolution.* Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

32. *European History since 1815.* Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

The Seminary in European History, conducted by Professor Munro, and limited to a small number of advanced students, holds meetings devoted to discussion of topics previously assigned.

ENGLISH AND AMERICAN HISTORY

Professor MACDONALD

- [19, 20, 21. *English Constitutional and Political History to 1689.* Three hours. Through the year. Elective for Juniors, Seniors and Graduates.] Not offered in 1902-03. To be offered in 1903-04.

[XIV. History, continued.]

22, 23, 24. *English Constitutional and Political History since 1689*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

Course 22, 23, 24 gives special attention to the growth of cabinet government, the colonial system, foreign relations, and parliamentary and economic reform.

25, 26, 27. *American History to 1787*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

Special stress is laid in these courses on American colonial history as illustrative of the colonial policies of European states, and on such topics as the development of colonial and local forms of government, the intercolonial wars, the Revolution, colonial slavery, etc.

[28, 29, 30. *Constitutional and Political History of the United States since 1787*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates.] Not offered in 1902-03. To be offered in 1903-04.

34, 35, 36. *Research Course in English History*. Three hours. (One hour of class-room attendance.) Through the year. Elective for Graduates and qualified Seniors.

The subject for 1902-03 is the reign of James II and the English Revolution.

37, 38, 39. *Research Course in American History*. Three hours. (One hour of class-room attendance.) Through the year. Elective for Graduates and qualified Seniors.

The subject for 1902-03 is the administration of Andrew Jackson.

31, 32, 33. *Principles of Historical Criticism and Research*. One hour. Through the year. Elective for Graduates.

The course has special reference to historical bibliography, the subject-matter varying somewhat from year to year. In 1902-03 particular attention will be paid to the bibliography of later English history. A reading knowledge of French and German is essential.

XV. MATHEMATICS

3. *Algebra*. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who do not present Solid Geometry and Plane Trigonometry for admission.

Professors CLARKE, DAVIS, MANNING and SLOCUM, Messrs. CURRIER and
PACKARD

1. *Geometry, Solid and Spherical*. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who do not present Solid Geometry and Plane Trigonometry for admission.

Professors CLARKE, DAVIS and MANNING, Messrs. CURRIER and PACKARD

2. *Trigonometry*. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who do not present Solid Geometry and Plane Trigonometry for admission.

Professors CLARKE, MANNING and SLOCUM, Messrs. CURRIER and
PACKARD

4. *Spherical Trigonometry*. One hour. First Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who present Solid Geometry and Plane Trigonometry for admission.

Professor DAVIS

- 5, 6, 7. *Algebra*. One hour. First Term. Two hours. Second and Third Terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who present Solid Geometry and Plane Trigonometry for admission.

Professors DAVIS and SLOCUM and Mr. CURRIER

8. *Determinants and Theory of Equations*. Three hours. Third Term. Elective for students who have passed in 3 or 5, 6, 7.

Mr. CURRIER

[XV. Mathematics, continued.]

38. *Algebra*. Six hours. First Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering.

Mr. CURRIER

39. *Trigonometry, Plane and Spherical*. Six hours. Second Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering.

Professor SLOCUM

40. *Analytic Geometry*. Six hours. Third Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering.

Professor DAVIS

- [41. *Differential Calculus*. Five hours. First Term. To be required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering in 1903-04.] Not offered in 1902-03.

- [42, 43. *Integral Calculus*. Three hours. Second and Third Terms. To be required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering in 1903-04.] Not offered in 1902-03.

- 9, 10. *Analytic Geometry*. Three hours. First and Second Terms. Elective for students who have passed in 1, 2 and 3. Required of candidates for the degree of Bachelor of Science, Civil Engineer or Mechanical Engineer, and of Candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who present Solid Geometry and Plane Trigonometry for admission.

Professor DAVIS

11. *Modern Methods of Analytic Geometry*. Three hours. Third Term. Elective for students who have passed in 10.

Professor MANNING

[XV. Mathematics, continued.]

- [30. *Solid Analytic Geometry*. Three hours. Third Term. Elective for students who have passed in 10.] Not offered in 1902-03.

Professor MANNING

12. *Differential Calculus*. Three hours. Third Term. Elective for students who have passed in 10; required of candidates for the degree of Bachelor of Science, Civil Engineer or Mechanical Engineer, and of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who present Solid Geometry and Plane Trigonometry for admission.

Professor DAVIS

13. *Integral Calculus*. Three hours. First Term. Elective for students who have passed in 12; required of candidates for the degree of Civil Engineer, Mechanical Engineer or Bachelor of Science in Electrical Engineering.

Professor DAVIS

14. *Applications of the Differential Calculus*. Three hours. Second Term. Elective for students who have passed in 12 and 13; required of candidates for the degree of Civil Engineer, Mechanical Engineer or Bachelor of Science in Electrical Engineering.

Professor DAVIS

31. *Applications of the Integral Calculus*. Three hours. Third term. Elective for students who have passed in 13; required of candidates for the degree of Civil Engineer or Bachelor of Science in Electrical Engineering.

Professor DAVIS

- 15, 16, 17. *Differential Equations*. Three hours. Through the year. Elective for students who have passed in 13. No. 15 is required of candidates for the degree of Bachelor of Science in Electrical Engineering.

Professor MANNING

[XV. Mathematics, continued.]

[18, 19, 20. *General Theory of Curves and Surfaces*. Three hours. Through the year. Elective for Graduates and candidates for the degree of Bachelor of Science who have passed in 16 and 30.] Not offered in 1902-03.

Professor MANNING

21, 22, 23. *Theory of Functions*. Three hours. Through the year. Elective for Graduates, for approved Seniors and for candidates for the degree of Bachelor of Science who have passed in 16.

Professor MANNING

[24, 25, 26. *Differential Equations, advanced*. Three hours. Through the year. Elective for Graduates who have passed in 23]. Not offered in 1902-03.

Professor MANNING

27, 28, 29. *Advanced Algebra*. Three hours. Through the year. Elective for Graduates and for approved Seniors.
Including substitutions and the Galois theory of equations.

Professor MANNING

[32, 33, 34. *Quaternions, Non-Euclidean Geometry and Hyper-Space*. Three hours. Through the year. Elective for Graduates and for approved Seniors.] Not offered in 1902-03.

Professor MANNING

Two or three of the courses 18-34 are offered each year according to the requirements of the students. For those who have taken them all, other courses can usually be arranged.

XVI. PHILOLOGY

Professor ALLINSON

1, 2. *General Introduction to the Study of Language*. Three hours. Second and Third Terms. Elective for Sophomores, Juniors and Seniors.

Outline of the history of language. The Indo-European family. Adapted for students of ancient or modern languages.

[XVI. Philology, continued.]

- [4, 5, 6. *Sanskrit, elementary*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates.] Not offered in 1902-03.

Whitney's *Grammar*, Lanman's *Reader*. Selections from the *Vedic Hymns*.

7. *Seminary in Comparative Philology*. One two-hour session weekly. First Term. Elective for Graduates and qualified Seniors.

Intended for advanced students in Greek and Latin. See Greek 34.

- 10, 11, 12. *Sanskrit, advanced*. One hour. Through the year. Elective for students who have passed in 4, 5, 6 or an equivalent.

Vedic Hymns and other selections.

XVII. PHILOSOPHY

PHILOSOPHY AND PSYCHOLOGY

NOTE: Some one complete course in this department is required of every candidate for the degree of Bachelor of Arts or Bachelor of Philosophy. By a complete course is understood all that is grouped together as a three-hour course under a single name in the accompanying announcements, provided it consists of a year's work. The courses in Education, however, cannot be taken to satisfy this requirement.

- 19, 27, 43. *Logic*. Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.

A study of the aims, methods and limitations of human thinking; a preparation for work in the sciences and in philosophy. First Term, general introduction and formal logic; Second Term, an examination of the principles and methods of the natural sciences; Third Term, a statement of the relations of science to philosophy, giving the philosophical interpretation and criticism of the results of science.

Professor MEIKLEJOHN

[XVII. Philosophy, continued.]

2, 3, 4. *Psychology, introductory course.* Three hours. Through the year. Elective for Juniors.

The main facts and laws of mental life; particular attention to their arrangement in a thorough and comprehensive scientific system, also to their philosophical bearing. The course is thus of value not only because of the immense importance of a knowledge of mental law for practical life, but also as a transition from the special sciences to philosophy.

Professor DELABARRE. [This year Mr. HALL]

20, 21, 22. *Psychology, advanced course.* Three hours. Through the year. Elective for Seniors and Graduates.

A seminary for the discussion of important and interesting questions in psychology. First Term, the fundamental principles of psychology; Second Term, abnormal and unusual states of consciousness; Third Term, subject undetermined.

Professor DELABARRE. [This year Mr. EWER]

29, 30, 31. *Experimental Psychology, introductory laboratory course.* Three hours. Through the year. Elective for Juniors, Seniors and Graduates who have taken or are taking 2, 3, 4.

Six hours of attendance. Description of the main lines and results of experimental research; demonstration of many of them by the instructor or the class; training in the use of apparatus and in careful scientific observation and measurement.

Professor DELABARRE and Mr. HALL. [This year Mr. HALL]

39, 40, 41. *Experimental Psychology, advanced and original laboratory work.* Through the year. Elective for students who have taken 29, 30, 31.

This course may be taken for any number of hours up to six in the case of Undergraduates, or more in the case of Graduates, with double the number of hours of attendance. The problems investigated will vary from year to year according to the interests of instructor and students, and the course may therefore be taken two or more years in succession. The aim is to make original contributions to scientific knowledge in psychology and to publish the results.

Professor DELABARRE and Mr. HALL. [This year Mr. HALL]

[XVII. Philosophy, continued.]

- 8, 9, 10. *History of Philosophy*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

First Term, Greek philosophy; Second Term, mediæval and early modern philosophy; Third Term, recent and contemporary philosophy. The successive philosophical systems in their dialectical development and mutual relations; treatment not merely analytic and historical, but synthetic and constructive as well.

Professor EVERETT

- 5, 23. *Theoretical Ethics*. Three hours. First and Second Terms. Elective for Seniors and Graduates.

Intended to aid in mastering the fundamental problems of life and character. First Term, a discussion of the nature and relations of ethics and an outline of the history of the chief ethical systems; Second Term, a critical study of the fundamental concepts of ethics with the aim of constructing a tenable theory of conduct.

Professor EVERETT

44. *Practical Ethics*. Three hours. Third Term. Elective for Seniors and Graduates.

Intended to apply ethical theory to the life of the individual, the family and the state. Discussion of current problems, personal, industrial and social, from the ethical standpoint.

President FAUNCE

- [26. *Outlines of the History of Religion*. Two hours. Second Term. Elective for Seniors and Graduates.] Not offered in 1902-03.

Professor EVERETT

24. *Philosophy of Religion*. Three hours. Third Term. Elective for Seniors and Graduates who have had previous philosophical training.

An investigation of the ultimate grounds of religious belief.

Professor EVERETT

- 14, 28, 42. *Philosophical Seminary*. Three hours. Through the year. Elective for Graduates.

Lectures, papers and discussions on the more difficult problems of philosophy. Subject for 1902-03: The philosophical systems of Schopenhauer and Hartmann.

Professor EVERETT

[XVII. Philosophy, continued.]

- [17. *Discussions in Casuistry*. One hour. Second Term. Elective for Seniors and Graduates.] Not offered in 1902-03.

Professor MEIKLEJOHN

- 33, 34, 35. *Kantian and Post-Kantian Philosophy*. Three hours. Through the year. Elective for Seniors who have taken Philosophy 8, 9, 10 and for Graduates.

Kant's *Critique of Pure Reason* will be studied as the source of German Rationalism. The same line of thought will be traced in the *Critique of Practical Reason*, and in the works of Fichte, Schelling and Hegel.

Professor MEIKLEJOHN

Philosophical Club. A Philosophical Club, consisting of Graduate, Senior and Junior students of Philosophy, meets once a month for the reading of papers and for free discussion. Though the organization is primarily in the hands of the students, the officers of instruction in the philosophical department, as well as other persons interested in philosophy usually attend.

EDUCATION

Professor JACOBS

1. *History of Educational Theories and Institutions*. Three hours. First Term. Elective for Juniors, Seniors and Graduates.

Education among the Greeks and the Romans; the rise and constitution of Universities; Erasmus and the Humanists; Comenius and the Realists; Rousseau and the Naturalists; Psychologizing education, Pestalozzi, Froebel, Herbart.

2. *A Critical Study of Modern Education*. Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

3. *The Fundamental Principles of Education*. Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

The meaning and aim of education; the sequence and coördination of studies; the principles of instruction as derived from psychology; apperception; the steps in method; the use of the type in instruction; the training of the will and the principles of moral education.

[XVII. Philosophy, continued.]

NOTE: Courses 1, 2 and 3 treat of education in its relation to the individual, and to the social and political whole, and hence are of interest to all students, whether they intend to teach or not. At the same time they form a proper and necessary introduction to the courses which follow. Those who intend to teach are recommended to elect these courses during the Junior year.

4. *The Psychology of Education.* Three hours. First Term. Elective for Seniors and Graduates.

The principles of psychology applied to method in education and instruction.

5. *The Hygiene of Education.* Three hours. Second Term. Elective for Seniors and Graduates.

The hygiene of growth. Play and fatigue. Sight and hearing. School diseases. School architecture. Warming, ventilating and lighting. Sanitation. School furniture. School programs.

6. *Practical Introduction to Teaching.* Three hours. Third Term. Elective for Seniors and Graduates.

Organization of school systems. Management and discipline of classes. Observation of good teaching. Practical applications in method.

NOTE: *Teacher's Certificates.* The above courses, 1-6, cover the requirements in professional studies for certificates of the First Grade in all states except where practice-teaching or experience is demanded. In Rhode Island, *the holding of a certificate is required of all teachers* in schools supported in whole or in part by public money. Certificates of the First Grade are granted without examination to those who have completed the above courses and hold a college degree. Due credit is also given for separate courses.

NOTE: Those who have completed courses 1-6 and hold a college degree are eligible to appointment in the Primary and Grammar Training Schools of Providence, under especially favorable conditions.

7. *A Study of Educational Values.* Three hours. First Term. Seminary course. Required of student-teachers. Elective for Graduates and experienced teachers.

A careful consideration of the importance and meaning of the chief subjects taught in Secondary Schools. For an explanation of the work of student-teachers, see Index.

[XVII. Philosophy, continued.]

8. *Method as Applied to Typical Secondary School Studies.* Three hours. Second Term. Seminary course. Required and elective as in 7.

Methods of teaching English, Latin, Modern Languages, Mathematics, History, Science.

9. *Organization, Equipment and Management of Secondary Schools.* Three hours. Third Term. Required and elective as in 7.

A seminary course.

- 10, 11, 12. *Problems in Practical Teaching.* Three hours. Through the year.

Practice-teaching. Control and conduct of classes, plans for single lessons, and for "method-wholes," observation of the work of experienced teachers, reports, private conferences, theses upon practical questions of educational work. Opportunity for practice-teaching in the High Schools of the city is given to capable graduate students, and in the Grammar Schools to a limited number of Seniors preparing to teach in the grades or to fill places as principals or superintendents.

The Seminary in Education, limited to graduate students and experienced teachers, holds meetings for the discussion of contemporary problems.

XVIII. PHYSICS

- 1, [2,] 4. *Elementary Physics.* Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and others who have passed in Mathematics 1, 2, 3. Course 2 is not offered in 1902-03.

First Term, kinematics and dynamics; Second Term, molecular physics; Third Term, electricity. Daniell's *Principles of Physics*, lectures illustrated by experiments and the lantern. Weekly written exercises corrected in detail by the instructors. Designed for those who have had little previous training in physics; presupposes only a good knowledge of elementary mathematics. The entire course is a unit, setting forth the principles of modern physics. It is sufficiently broad to be a commentary upon whatever preliminary training in physics the student may have had, and to serve as a theoretical introduction to the professional courses.

Professor BARUS

[XVIII. Physics, continued.]

32. *Optics*. Three hours. Second Term. Elective for Sophomores, Juniors and Seniors who have passed in 1.

Professor BARUS

NOTE: The three courses, 32, 37, 38, consist of lectures on the elementary principles of Optics, Acoustics and Heat. They alternate, in turn, with 2, for the convenience of the other courses.

- [37. *Acoustics*. Three hours. Second Term. Elective for Sophomores, Juniors and Seniors who have passed in 1.]
Not offered in 1902-03.

Professor BARUS

- [38. *Heat*. Three hours. Second Term. Elective for Sophomores, Juniors and Seniors who have passed in 1.] Not offered in 1902-03.

Professor BARUS

- 5, 9, 10. *Physical Measurements*. Three hours. Through the year. Elective for students who have passed in 1, 2, 4.

Six hours in the laboratory. Elementary theory and practice of physical manipulation. Reports of experiments and solution of problems.

Professor PALMER

- 13, 14, 16. *Mathematical Treatment of Dynamical Problems*. Three hours. Through the year. Elective for Seniors and Graduates who have passed in 10 and Mathematics 16.

Lectures. First Term, discussion of the general principles of dynamics and the development of the general equations of motion; Second and Third Terms, application of these principles to special problems in thermodynamics and hydrodynamics.

Professor PALMER

- 17, 18, 19. *Laboratory Course, advanced*. Three or six hours. Through the year. Elective for students who have passed in 10.

Six or twelve hours of attendance. For those who are already familiar with the use of physical apparatus and are capable of carrying on investigations more or less independently. Special problems and reference to original sources for methods of solution.

Professors BARUS, PALMER and WATSON

[XVIII. Physics, continued.]

- 20, 21. *Harmonic Analysis*. Three hours. Second and Third Terms. Elective for Seniors and Graduates who have passed in 1, 2, 4 and Mathematics 14, 15.

Importance of Fourier's method shown by examples taken from the analytical theory of heat, from elastics, alternating electricity, and elsewhere; treatment by the aid of spherical harmonics, Bessel functions and Lamé functions.

Professor BARUS

22. *Behavior of Matter through Long Ranges of Temperature*. Elective for Graduates.

Original research. Investigation of accurate methods and data in absolute pyrometry; determination of the high temperature constant of non-volatile bodies with a view to the elucidation of fundamental questions in the physics of the earth's crust.

Professor BARUS

NOTE: Courses 22 to 25, inclusive, occupy more or less time a week, according to the requirements of the students. These courses are definitely organized, and the requisite apparatus is provided for conducting them. Other courses of original research are offered to suit the special needs or training of advanced students. The order of interchange between 13, 14, 16, and 26, 27, 28, and between 20, 21, and 29, 30, 31, is not fixed. The preference of the applicants for instruction will be regarded in determining which shall be given.

23. *Behavior of Matter through Long Ranges of High Pressure*. Elective for Graduates.

Original research. Thermodynamics of the change of state from solid to liquid, due either to fusion or to solution, with especial reference to the continuity of solid and liquid, and to the location of the lower critical temperature.

Professor BARUS

24. *Absolute Viscosity of Solids as Compared with Liquids and Gases*. Elective for Graduates.

Original research. Investigation of absolute data for the viscosity of solids.

Professor BARUS

[XVIII. Physics, continued.]

25. *Physical Properties of the Iron Carburets.* Elective for Graduates.

Original research. A consideration of the physical properties of iron, steel and cast iron with reference to their bearing on metallurgical and electro-technical problems.

Professor BARUS

26, 27, 28. *Mathematical Theory of Electricity and Magnetism.* Three hours. Through the year. Elective for Graduates and Seniors who have passed in 10 and Mathematics 16.

Lectures. A development of the mathematical theory of electricity and magnetism, and a discussion of the more important problems of electrical science.

Professor PALMER

29, 30, 31. *Physics, advanced.* Three hours. Through the year. Elective for Juniors, Seniors and Graduates who have passed in Mathematics 12, 13 and 14.

Lectures on dynamics, potential, elastics, hydrostatics, hydrodynamics, viscosity, capillarity, electrostatics, magnetism, electromagnetism, thermo-electrics, induction, Fresnel's optics, the electro-magnetic theory of light, thermal analytics and thermodynamics. Completed in two years. Alternating, if desirable, with 20, 21.

Professor BARUS

NOTE: Candidates for the degree of Master of Arts with a major in physics will be held responsible for at least one of the advanced courses in theoretical physics. The requirements for non-resident students with a minor in physics are quite as advanced as for students in residence with a major in physics. The department is able to offer every reasonable facility both for research work and for the study of the higher problems in physics; it is not able to offer much encouragement to those wishing to take degrees not in residence.

36, 39. *Precision Measurements in Photometry, Electricity and Magnetism.* Three hours. First and Second Terms. Elective for students who have passed in 10 and Mathematics 13.

Six hours in the laboratory.

Professor PALMER

[XVIII. Physics, continued.]

46. *Applied Electro-Chemistry*. Three hours. Third Term.
Elective for students who have passed in 39 and 15.

Six hours in the laboratory.

Professor PALMER

ELECTRICAL ENGINEERING

Professor WATSON

11. *Elementary*. Three hours. First Term. Elective for students who have passed in 4.

Definite instruction in methods of generating and utilizing electric currents; introductory to the technical courses.

12. *Dynamo-Electric Machinery*. Three hours. Second Term. Elective for students who have passed in 11, and who have taken or are taking 5, 9, 10 and Mathematics 12.

Two hours of recitation, and two hours of laboratory practice. Technical study of theory and calculations for dynamo-electric machinery.

15. *Laboratory*. Three hours. Third Term. Elective for students who have passed in 11 and 12.

One hour of recitation and four hours of laboratory work. Practical methods of operating and testing various sizes and types of standard dynamos.

33. *Periodic or Alternating Currents of Electricity*. Three hours. First Term. Elective for students who have passed in 15, and who have taken or are taking Mathematics 15.

A mathematical and graphical treatment.

34. *Utilization of Alternating Currents*. Three hours. Second Term. Elective for students who have passed in 33.

35. *Laboratory, Alternating Current Machinery*. Three hours. Third Term. Elective for students who have passed in 34.

Six hours in the laboratory. Testing of apparatus. The construction of new apparatus may be included, in the case of suitably qualified students, as a minor portion of this course.

40. *Development and Scope of Industrial Electricity*. Three hours. First Term.

May be taken with 11.

[XVIII. Physics, continued.]

41. *Telephone and Telegraph Engineering.* Three hours. Second Term.

Two hours of recitation and one hour of laboratory work in construction of electrical apparatus. May be taken with 12.

42. *Design and Calculation of Direct Current Machinery.* Three hours. Third Term.

Time spent in actual drawing will be counted like laboratory work. May be taken with 15.

43. *Electric Railway Engineering.* Three hours. First Term. Elective for students who have passed in 15.

44. *Design and Calculation of Alternating Current Machinery.* Three hours. Second Term. Elective for students who have passed in 33.

45. *Central Station Design, Equipment and Systems of Distribution.* Three hours. Second Term. Elective for students who have passed in 33.

47. *Specific Engineering Problems.* Three hours. Third Term.

Reading and discussion. Seminary method.

XIX. POLITICAL ECONOMY

12. *Political Economy, elementary.* Three hours. Third Term. Elective for Sophomores, Juniors and Seniors who have passed in Social Science 12 and Political Science 12.

Professor GARDNER

NOTE: *The courses in this department, other than 12, are open only to those students who have passed in Social Science 12 (first term), Political Science 12 (second term), and Political Economy 12 (third term), which together constitute a single course introductory to the departments of Social and Political Science and Political Economy.*

NOTE: *Courses 9, 10, 11, 15, 4 and 17 will probably not be given in 1903-04. Students intending to take only one course in this department are advised to take 1, 2, 3.*

[XIX. Political Economy, continued.]

- 1, 2, 3. *General Economics*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates who have passed in 12.

This is a continuous course, new students not being admitted in the Second and Third Terms.

First Term, the development and results of the more important elements in the existing form of industrial organization. The following are among the topics treated: The independence and responsibility of the individual, private property, freedom in the choice of industry, freedom of exchange and contract, competition, speculation, capitalistic control of industry, the tendency to industrial combination, money, and credit. Second Term, the principles governing the distribution of wealth under the existing form of economic organization. Third Term, some of the more important economic problems, such as the tariff, the regulation of the conditions of employment, particularly regulations affecting hours of labor and the employment of women and children, trade unions, arbitration and conciliation, coöperation and profit sharing, socialism, the single tax, the railway problem, governmental ownership and management of monopolies, and the regulation of industrial combination.

Professor GARDNER (First and Second Terms)

Dr. WILLETT (Third Term)

9. *Public Finance*. Three hours. First Term. Elective for Juniors, Seniors and Graduates who have passed in 12.

Development and significance of modern methods of raising and expending the revenues of government; principles of taxation and public indebtedness; financial aspects of the ownership and management of industries by government; financial systems of leading modern nations.

Professor GARDNER

10. *Public Finance*. Three hours. Second Term. Elective for Juniors, Seniors and Graduates who have passed in 12.

The financial history of the United States.

Professor GARDNER

11. *Public Finance*. Three hours. Third Term. Elective for Juniors, Seniors and Graduates who have passed in 12.

Local finance with special reference to the financial systems of states and municipalities in the United States.

Professor GARDNER

NOTE: Courses 9, 10 and 11 constitute a continuous course, but may be taken separately.

[XIX. Political Economy, continued.]

15. *The Labor Movement*. Three hours. First Term. Elective for Juniors, Seniors and Graduates who have passed in 12.

Special reference to trade unions and labor problems in the United States.

Dr. WILLETT

4. *Socialism*. Three hours. Second Term. Elective for Juniors, Seniors and Graduates who have passed in 12.

A brief review of the historically important socialistic schemes, but mainly a study of the modern scientific socialism of Karl Marx and of the resultant socialistic movements.

Dr. WILLETT

17. *The Tariff*. Three hours. Third Term. Elective for Juniors, Seniors and Graduates who have passed in 12.

A discussion of the arguments for free trade and protection considered in relation to the principles of international trade; and a historical study of tariff legislation in the United States.

Dr. WILLETT

19. *Industrial History*. Three hours. First Term. Elective for Juniors, Seniors and Graduates who have passed in 12.

Chiefly the industrial history of England and the evolution of modern forms of industrial organization.

Professor GARDNER

20. *Industrial History of the United States*. Three hours. Second Term. Elective for Juniors, Seniors and Graduates who have passed in 12.

Professor GARDNER

21. *Existing Industrial Conditions in the United States*. Three hours. Third Term. Elective for Juniors, Seniors and Graduates who have passed in 12.

Professor GARDNER

NOTE: 19, 20 and 21 form a continuous course, but may be taken separately.

[XIX. Political Economy, continued.]

- 22, 23, 24. *Investigation of Special Subjects.* Three hours. First, Second and Third Terms. Elective for Juniors, Seniors and Graduates who have passed in 12 and are approved by the department.

These courses do not constitute a single course and may be taken separately. They are intended to train the student in methods of gathering and handling data in the study of economic or social or political problems and conditions, and will be conducted in a manner similar to that followed in laboratory courses. Six hours of attendance will be required, and each student will be assigned a subject for investigation to be worked up under the direction and supervision of the instructor. The number of students who can be accommodated in these courses is limited and preference will be given to students who are taking other courses in economics.

Professor GARDNER and Dr. WILLETT

XX. ROMAN LITERATURE AND HISTORY

1. *Livy.* Three hours. First Term. Elective for students who presented elementary and advanced Latin for admission.

While grammatical study and literary criticism receive attention in this as in the other courses of the Freshman year, the special aim is to enable the student to acquire facility in reading and to instruct him in the use of the Latin texts as a means of acquiring a knowledge of Roman history.

Professor GREENE and Mr. PAINE

2. *Cicero's Letters.* Three hours. Second Term. Elective for students who presented elementary and advanced Latin for admission.

Professor GREENE and Mr. PAINE

3. *Tacitus' Germania and Agricola.* Three hours. Third Term. Elective for students who presented elementary and advanced Latin for admission.

Professor GREENE and Mr. PAINE

[XX. Roman Literature and History, continued.]

- 46, 47. *Roman Life*. Three hours. Second and Third Terms. Elective for Freshmen and Sophomores.

The private and public life of the Romans based on the monuments and literature. Intended to give a comprehensive view of the general civilization of Rome. Lectures supplemented by reading and reports. No knowledge of Greek or Latin is required.

Professor GREENE

NOTE: This course is a continuation of Greek 46. The three terms together constitute the course called History of Greek and Roman Life and Institutions.

4. *Horace's Odes and Epodes*. First Term. Elective for Sophomores.

In this as in the other Sophomore courses, the literary side of the study is made prominent. A part of the time is occupied with a critical study of the poems, while a part is devoted to rapid reading with a view to comprehending the spirit of the authors. Lectures are given by the instructor, and literary topics are assigned to the class for special study.

Professor GREENE

5. *Catullus, Tibullus and Propertius*. Three hours. Second Term. Elective for Sophomores.

Professor GREENE

6. *Satires of Horace and Juvenal*. Three hours. Third Term. Elective for Sophomores.

Professor HARKNESS [This year Mr. PAINE]

- [7. *Origin of Latin Poetry and Development of the Drama*. Three hours. First Term. Elective for Juniors and Seniors.] Not offered in 1902-03.

Readings from Plautus and Terence.

Professor HARKNESS

- [8. *Poetry of the Republic, continued, and Poetry of the Augustan Age*. Three hours. Second Term. Elective for Juniors and Seniors.] Not offered in 1902-03.

Readings from Lucretius and other authors of this period.

Professor HARKNESS

[XX. Roman Literature and History, continued.]

- [9. *Poetry of the Silver Age*. Three hours. Third Term. Elective for Juniors and Seniors.] Not offered in 1902-03.

Professor HARKNESS

11. *Prose of the Republican Period*. Three hours. First Term. Elective for Juniors and Seniors.

Development of oratory; reading from specimens of Early Latin, from Cicero's *Brutus*, and from Quintilian.

Professor HARKNESS [This year Professor GREENE]

NOTE: The advanced courses open to Juniors and Seniors relate to the development and history of Roman literature. Poetry and prose are discussed in alternate years. The aim of these courses is to give a connected and comprehensive view of the entire range of Roman literature. Lectures are given on the lives and writings of the authors, and characteristic selections are read. Topics in literary history and criticism are assigned to members of the class for special study and investigation.

12. *Prose of the Augustan Age*. Three hours. Second Term. Elective for Juniors and Seniors.

Development of historical writing; readings from the historians.

Professor HARKNESS [This year Professor GREENE]

13. *Prose of the Silver Age*. Three hours. Third Term. Elective for Juniors and Seniors.

Roman philosophers; readings from Seneca and other authors of this period.

Professor HARKNESS [This year Professor GREENE]

- 10, 14, 15. *Private Life and Antiquities of Rome*. One hour. Through the year. Elective for Juniors, Seniors and Graduates.] Not offered in 1902-03.

Professor HARKNESS

- [16, 17, 18. *Petronius, Pliny the Younger, Martial*. One hour. Through the year. Elective for Juniors, Seniors and Graduates.] Not offered in 1902-03.

Professor HARKNESS

[XX. Roman Literature and History, continued.]

[19, 20, 21. *Epigraphy*. Two hours. Through the year. Elective for Graduates and qualified Undergraduates.] Not offered in 1902-03.

Professor HARKNESS

[22, 23, 24. *Palæography and Textual Criticism*. Two hours. Through the year. Elective for Graduates and qualified Undergraduates.] Not offered in 1902-03.

Professor HARKNESS

[31, 32, 33. *Roman Architecture and Topography*. One hour. Through the year. Elective for Juniors, Seniors and Graduates.] Not offered in 1902-03.

Professor HARKNESS

37, 38, 39. *Latin Composition*. One hour. Through the year. Elective for Sophomores, Juniors and Seniors.

Professor GREENE [This year Mr. PAINE]

40, 41, 42. *Seminary in Latin*. Two hours. Through the year. Elective for Graduates.

First Term, Roman elegy. Second Term, Lucan. Third Term, Roman provincial administration.

Professor GREENE

43, 44, 45. *Cicero, De Natura Deorum*. One hour. Through the year. Elective for Juniors, Seniors and Graduates.

Mr. PAINE

NOTE: The attention of advanced students in Latin is called to the courses, Philology 8, and Greek 34.

XXI. ROMANCE LANGUAGES AND LITERATURES

FRENCH

A, B, C. *Elementary French*. Three hours. Through the year. Required of all students who did not present French for admission.

Grammar, composition, dictation, translation of selections from modern authors into idiomatic English. The equivalent of the French required for admission.

MESSRS. MORSE and WILLIAMSON

[XXI. Romance Languages and Literatures, continued.]

1, 2, 3. *Language*. Three hours. Through the year. Required of all Freshmen who presented elementary French for admission.

A thorough study of French syntax, translation of modern authors, written and oral re-translation into French of exercises based upon the texts read, dictation. Intended to give students a large working vocabulary.

Professor JOHNSON, Messrs. MORSE and WILLIAMSON

[4, 5, 6. *Literature*. Three hours. Through the year. Elective for students who have passed with credit in 1, 2, 3, or who presented advanced French for admission.] Not offered in 1902-03.

Professor JOHNSON

13, 14, 15. *Practice in Writing and Speaking*. Three hours. Through the year. Elective for students who have passed with credit in 1, 2, 3 or who presented advanced French for admission.

Intended more especially for those preparing to teach. A large amount of set and free composition, abstracts (in French) of assigned reading, dictation, conversation, oral translation into French of an English novel, abstracts of French read in class by the instructor.

Professor JOHNSON

16, 17, 18. *Old French*. One hour. Through the year. Elective for Seniors and Graduates.

The elements of Romance Philology and an introduction to the literature of the Middle Ages in France.

Mr. MORSE

37, 38, 39. *The French Drama*. Three hours. Through the year. Elective for Juniors, Seniors and Graduates who have passed with credit in French 1, 2, 3.

From Corneille to Rostand, with special study of its classical and romantic sources and influences.

Professor LANGDON

[XXI. Roman Languages and Literatures, continued.]

ITALIAN

- 1, 2, 3. *Modern Italian*. Three hours. Through the year.
Elective for Juniors, Seniors and Graduates.

Grammar, composition, conversation, and rapid translation of modern authors.

Mr. MORSE

COMPARATIVE LITERATURE

- 1, 2, 3. *Dante in English*. Three hours. Through the year.
Elective for Juniors, Seniors and Graduates.

A study of the whole of the *Divina Commedia* in English in the light of modern thought and in connection with the great world-poems, *Job*, the *Iliad-Odyssey*, the *Aeneid*, *Hamlet*, *Paradise Lost*, *Faust* and *The Ring and the Book*. An introduction to a study of comparative literature by means of the best available translations.

Professor LANGDON

SPANISH

- 1, 2, 3. *Modern Spanish*. Three hours. Through the year.
Elective for Juniors, and for Sophomores not electing more than one other modern foreign language.

Grammar, conversation, composition, writing from dictation, and rapid reading.

Professor JOHNSON

- 4, 5, 6. *Language and Literature*. Three hours. Through the year. Elective for those who have passed with credit in 1, 2, 3.

First Term, Valdés' *José*. Second Term, Galdos' *Doña Perfecta*. Third Term, Gil y Zárate's *Guzmán el Bueno*, Echegaray's *O Locura ó Santidad*, selections from *Don Quijote*. Daily exercises in composition and conversation. Reports (in Spanish) of outside reading.

Professor JOHNSON

XXII. SOCIAL AND POLITICAL SCIENCE

NOTE: *The courses in this department other than 12 are open only to those students who have passed in Social Science 12 (first term), Political Science 12 (second term), and Political Economy 12 (third term), which together constitute a single course introductory to the departments of Social and Political Science and Political Economy.*

[XXII. Social and Political Science, continued.]

SOCIAL SCIENCE

12. *Elementary Course*. Three hours. First Term. Elective for Sophomores, Juniors and Seniors.

Professor WILSON

10. *Social Institutions*. Three hours. First Term. Elective for Juniors and Seniors.

Development, forms, importance, as shown in the family, church, etc.

Professor DEALEY

2. *Social Problems and Conditions*. Three hours. Second Term. Elective for Juniors and Seniors.

Relates to charity, criminology, etc.

Professor WILSON

11. *Demography*. Three hours. Third Term. Elective for Juniors and Seniors.

Dispersion of races. Social study of race characteristics. Emigration, immigration, etc.

Professor WILSON

4. *Social Philosophy*. Three hours. Third Term. Elective for Juniors and Seniors.

Aims and ideals in social life, social well-being.

Professor DEALEY

For Undergraduates, with the permission of the Department.

1. *The Principles of Sociology*. Three hours. First Term. Nature of society. Social forces and environment.

Professor WILSON

5. *Development of Social Theory*. Three hours. Second Term. Traces important theories, ancient and modern, in regard to social conditions and development.

Professor DEALEY

3. *Social Problems*. Three hours. Third Term.

Special study of important social questions.

Professor WILSON

NOTE: With these courses are correlated courses 22, 23, 24, offered by the department of Political Economy, which see.

[XXII. Social and Political Science, continued.]

For Graduates

- 7, 8, 9. *Current Social Theory and Practice*. One hour.
Through the year.

Professors WILSON and DEALEY

Also courses 1, 5, 3; see detailed statement above.

POLITICAL SCIENCE

12. *Elementary*. Three hours. Second Term. Elective for Sophomores, Juniors and Seniors who have passed in Social Science 12.

Professor DEALEY

3. *International Law and Relations*. Three hours. First Term. Elective for Juniors and Seniors.

Professor WILSON

7. *Diplomacy and World Politics*. Three hours. Second Term. Elective for Juniors and Seniors.

Art and practice of international negotiation with particular reference to foreign diplomacy.

Professor WILSON

11. *Diplomacy and World Politics*. Three hours. Third Term. Elective for Juniors and Seniors.

American development and problems.

Professor WILSON

4. *United States Government*. Three hours. First Term. Elective for Juniors and Seniors.

Constitution, organization, powers and methods of our national system of government.

Professor DEALEY

15. *Local and Municipal Government*. Three hours. Second Term. Elective for Juniors and Seniors.

Organization and functions of the states and cities of the United States.

Professor DEALEY

NOTE: This course is supplemented by course 35 on Municipal Improvements, offered by the department of Civil Engineering, which see.

[XXII. Social and Political Science, continued.]

2. *Comparative Study of Constitutions.* Three hours. Third Term. Elective for Juniors and Seniors.

With special reference to the constitutions of Germany, France, Great Britain and Switzerland.

Professor DEALEY

For Undergraduates, with the permission of the Department

1. *The State.* Three hours. First Term.

Origin, forms, development, functions and institutions of the state.

Professor DEALEY

16. *Constitutional Law.* Three hours. Second Term.

Principles and development with special reference to the Constitution of the United States.

Professor DEALEY

6. *Roman Law.* Three hours. Third Term.

The influence of Roman law on political institutions.

Professor DEALEY

17. *Political Problems.* Three hours. First Term.

With special reference to the United States.

Professor WILSON

18. *Political Parties.* Three hours. Second Term.

Their development in the United States and Europe.

Professor WILSON

19. *The Latin-American Republics.* Three hours. Third Term.

Their governments and social conditions.

Professor DEALEY

13. *Administration.* Three hours. First Term.

Principles and national systems.

Professor WILSON

14. *Administration.* Three hours. Second Term.

Local and colonial.

Professor WILSON

[XXII. Social and Political Science, continued.]

5. *Development of Political Theory.* Three hours. Third Term.

The growth of important political ideas traced from Plato to the present time, with emphasis on the evolution of democracy.

Professor DEALEY

For Graduates

- 8, 9, 10. *Current Political Theory and Practice.* One hour. Through the year.

Professors WILSON and DEALEY

Also courses 1, 16, 6, 17, 18, 19, 13, 14, 5; see detailed statement above.

ELEMENTARY LAW

Mr. BARROWS

1. *Persons and Personal Property.* Three hours. First Term. Elective for Juniors and Seniors.

NOTE: Groups 1, 2, 3, and 4, 7, 8 are given in alternate years. In 1902-03 the courses given will be 1, 2, 3. Courses 4, 7, 8 will be offered in 1903-04. Courses 5, 6, 9 will for the present be omitted. These groups should be taken consecutively, beginning in the Junior year. While the primary purpose of these courses is to cultivate a legal mind, yet they prepare thorough students to enter most law schools with advanced standing and possibly to shorten their law course by one year; they also give a good foundation to the student who expects to prepare for the bar in a law office.

2. *Real Property.* Three hours. Second Term. Elective for Juniors and Seniors.
3. *Contracts.* Three hours. Third Term. Elective for Juniors and Seniors.
- [4. *Torts and Criminal Law.* Three hours. First Term. Elective for Juniors and Seniors.] Not offered in 1902-03.
- [7. *Equity.* Three hours. Second Term. Elective for Juniors and Seniors.] Not offered in 1902-03.
- [8. *Equity.* Three hours. Third Term. Elective for students who have passed in 7.] Not offered in 1902-03.

[XXII. Social and Political Science, continued.]

- [9. *Historical Development of the Common Law.* Three hours. First Term. Elective for Juniors and Seniors.] Not offered in 1902-03.
- [5. *Common Law Practice and Pleading.* Three hours. Second Term. Elective for Juniors and Seniors.] Not offered in 1902-03.
- [6. *Evidence.* Three hours. Third Term. Elective for Juniors and Seniors.] Not offered in 1902-03.

XXIII. ZOÖLOGY, GEOLOGY AND ANTHROPOLOGY

Professor PACKARD

ZOÖLOGY

1. *General Course on Invertebrate Animals.* Three hours. Second Term. Elective for Juniors and Seniors.
3. *Organic Evolution.* Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

Primary and secondary factors of evolution; relation of animals to the world around them; variation of species; zoögeography; effects of light, changes of temperature, food, climate; effects of isolation; kinetogenesis or dynamical evolution; mimicry; heredity; views held by different schools of evolutionists. Lectures and demonstrations.

GEOLOGY

1. *Physical Geology.* Three hours. First Term. Elective for Seniors.
5. *Structural and Stratigraphic Geology.* Three hours. First Term. Elective for Seniors.

Six hours of attendance. Field and laboratory work.

[XXIII. Zoölogy, Geology and Anthropology, continued.]

2. *Historical Geology, including Paleontology.* Three hours. Second Term. Elective for Seniors or for students who have passed in Geology 1, 5, and Zoölogy 1 and 3.

Lectures, text-book and laboratory work.

9. *Paleontology.* Three hours. Third Term. Elective for students who have passed in Geology 1, 2.

11. *Mineralogy.* Three hours. Third Term. Elective for Juniors and Seniors.

Determinative and descriptive mineralogy. Blowpipe and chemical analysis. Lectures on the economic effect of minerals in building-stones.

Mr. BLANCHARD

ANTHROPOLOGY

1. *General Course.* Three hours. Third Term. Elective for Seniors and Graduates

The principles of ethnology, ethnography and prehistoric archæology; man as related to other primates, origin of man, prehistoric races, language and race, writing, arts of life, amusements, primitive culture, including folk-lore, myths, primitive religious cults and primitive society. Lectures illustrated by bone, stone and bronze relics of the prehistoric races of Europe, Asia and Africa, by American stone and bone implements, by collections from New England shell-heaps, and by lantern views illustrating the fossil races of man and his art-remains in the Old World.

The Women's College

WILLIAM HERBERT PERRY FAUNCE, D. D., PRESIDENT

ANNIE CROSBY EMERY, Ph. D., DEAN

ADVISORY COUNCIL

MISS SARAH E. DOYLE MISS AMELIA S. KNIGHT

MRS. ELIZA G. RADEKE MRS. A. I. C. D. AMES

MRS. ANNIE HOWES BARUS

Instruction for undergraduate women is provided by a department of the University known as the Women's College in Brown University. In graduate work all courses offered in the University are open to both men and women at the same times and places. For graduate courses and degrees see pages 35-38. In undergraduate work the aim of the Women's College is to offer to all properly prepared women precisely the same examinations, the same courses of study under the same teachers, the same degrees, the same opportunities in every respect that the University offers to men, but to preserve the distinct social life of a separate college.

The general direction, supervision and government of the Women's College is in the hands of the President. The immediate charge of the Women's College in respect to registration, teaching, government and discipline, devolves, subject to the direction of the President, on the Dean. The Advisory Council, appointed under the authority of the Corporation, advises with the President and with the Dean upon matters relating to the Women's College, and from time to time makes to the Advisory and Executive Committee, or to the Corporation, recommendations in reference to the Women's College.

The instruction in the Women's College is given by the professors and instructors in Brown University.

Brown University examinations are open to women only when they are registered in the Women's College or as graduate students.

The Corporation receives gifts of money to found scholarships, fellowships and professorships in Brown University for the benefit of its women students and for the general purposes of the Women's College, and holds and administers such funds as separate and distinct from the general funds of the University. All gifts, legacies and bequests for the Women's College, like those meant for any other department of the University, should be made payable to "Brown University, in Providence, in the State of Rhode Island and Providence Plantations."

REQUIREMENTS FOR ADMISSION

The requirements for admission to the Women's College are the same that the University demands of men, and the entrance examinations for women are held at the same times and places and under the same conditions as those for men. In place of entrance examinations certificates may be presented from duly authorized schools. For full information on all these points see pages 20-35.

COURSES OF INSTRUCTION

In all the required studies classes are formed which are taught by the professors and instructors who have in charge the corresponding classes of men. Information in regard to the requirements for the various degrees may be found on pages 39-58.

The elective courses are identical in character with those offered to men. The list given on pages 59 to 122 of this catalogue may, therefore, be taken as indicating the range of choice. More precise information as to the courses offered is given each year in the circular issued at the beginning of the summer vacation.

Students who do not wish to become candidates for a degree are admitted to select courses of any extent, consisting either of special work in a single subject or of general studies for one term or more. Each applicant for registration in such a course must present to the Dean sufficient evidence of her ability to pursue successfully the course chosen. Moreover, every special student, unless excused by the Dean and by the professors in charge of her subjects, must take the regular examinations in those subjects.

EXAMINATIONS

As a rule, women take the same examinations as those offered to men, and at the same times and places. When this is impracticable and a separate examination is necessary, the two examinations are made as nearly identical in character as possible. Reports of proficiency are given after all examinations.

Before each University examination period the Dean files with the Registrar of the University a list of all undergraduate candidates for University examinations who are approved by the instructors in the Women's College, thus certifying to the fitness of the candidates to undertake the examinations; but no candidate is admitted to an examination whose term bill is not paid or satisfactorily arranged-for at least five days before the beginning of the examination period.

DEGREES

Upon women students who complete with credit any of the regular courses the Corporation of the University confers the corresponding degrees.

Special students who satisfactorily complete any of the minor courses of study receive certificates of their attainments.

PHYSICAL CULTURE

Great emphasis is laid upon physical training, and a competent teacher gives instruction in this subject throughout the

year. Regular exercise with light apparatus is required two hours each week of Freshmen and Sophomores; it is elective for Juniors and Seniors.

PEMBROKE HALL

The recitation building for the Women's College is of red brick with stone and terra cotta trimmings, after the old English University style of the fifteenth and sixteenth centuries. The building is three stories high and fitted up with every convenience. On the first floor are the offices, a private room for the instructors, and three recitation rooms with a seating capacity of fifty-four in the smallest and seventy-nine in the largest. The hallway is fifteen and one-half feet wide and the main staircase runs from the first floor to the assembly room at the top of the building. On the second floor are two recitation rooms, a reception room, a study and library combined thirty by twenty-six feet, and a magazine and reading room eighteen by twenty-six feet. The third floor is one large hall seventy-six by forty-four feet, with open timbered roof and two large fireplaces, and on the south side a platform with a staircase from the rear to a dressing room in a half-story between the platform and reception room. In the basement, which is light, dry and airy, the students' lockers, baths, kitchen and lunch room are located.

The building is named after Pembroke College, Cambridge, England, the alma mater of Roger Williams.

LOAN FUNDS

The Rhode Island Society for the Collegiate Education of Women has founded a Loan Fund from which students of the Women's College who have completed their first year may borrow small sums on easy terms. This fund is available only for students whose record for scholarship is satisfactory to the committee which administers the loans.

COLLEGE AID

The College awards annually from its own funds scholarships of varying amount to students in need of financial aid. These scholarships are given only to students whose college work is creditable, and are withdrawn if their holders become deficient in scholarship or subject in any way to college discipline.

SCHOLARSHIPS AND PREMIUMS

The Sarah E. Doyle scholarship for young women, consisting of one thousand dollars, has been founded by the woman whose name it bears, the income to be applied toward the payment of the tuition of students in the Women's College who have been prepared for college in the Providence High School.

The sum of one thousand dollars has been paid to the Treasurer of the University, to be known as "The Sarah Sutton Scholarship for young women, founded by her daughter, Mrs. Ruth Slater Arnold." The donor reserves the right to nominate candidates for this scholarship for a certain number of years.

The Daniels Scholarship Fund of twenty-five hundred dollars, founded by Harriet Daniels in memory of David Daniels of the class of 1824, and of Francis Adolphus Daniels of the class of 1862, the income to be used toward paying the expenses of one or more women pursuing studies either in the University or in the Women's College.

The Howard Scholarship of one thousand dollars, presented by James Leland Howard of Hartford, Conn.

The Joseph Thayer Scholarship of sixty-five hundred dollars. The income shall be for the education of any young man *or woman*, who is a resident of the town of Uxbridge, desiring a liberal education.

The Rhode Island Women's Club annually devotes the income of its Churchill Fund toward the payment of the tuition of some worthy student in the Women's College.

The Gaspee Chapter Daughters of the American Revolution prize of forty dollars, offered by the Gaspee Chapter of D. A. R.

is to be paid annually to that student in the graduating class of the Women's College who shall present the best essay upon some topic in American history. The topic for the year 1901-1902 was "The Attitude and Course of College Graduates in the Revolution." The successful competitor was Mary Child Lee. The topic for the year 1902-1903 will be "The part taken by Rhode Island in the resistance of the American colonies to Great Britain, 1763-1775." The essays are to bear each an assumed name, but to be accompanied by an envelope marked with such assumed name and enclosing a sheet of paper with the candidate's real name and address. The essays must be handed to the Dean of the Women's College before May 1st, 1903. The award will be announced on Commencement Day, when the topic for the ensuing year will be named.

The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered by Brown University. Women candidates successful in first-premium contests receive collateral prizes awarded by the Dean.

EXPENSES

Students of the Women's College pay the same amount as other students of the University. One-half of the tuition and of the incidental expenses is to be paid in advance; the remainder is due January first. Laboratory expenses, etc., are to be paid two weeks before the close of a term. Checks should be made payable to Annie Crosby Emery, Dean.

CANDIDATES FOR A DEGREE

Tuition, \$105 a year. No deduction is made on account of absence.

Incidentals, \$45 a year.

Every member of the Freshman Class pays, upon admission to the Women's College, a matriculation fee of \$5.

Every member of the Senior Class pays, upon graduation, a fee of \$8 for her diploma and other expenses connected with graduation.

SPECIAL STUDENTS

Special students of the Women's College are charged \$10 a term for each course holding three recitations a week. Laboratory charges are in addition to this.

RESIDENCE

The College owns one dormitory, the Slater Memorial Homestead, which contains for the accommodation of students four double rooms and nine single rooms. All the rooms are well furnished. One of the single rooms, on the second floor, is unusually large, and for it and board the charge is \$8.25 a week. Two of the single rooms, on the third floor, are very small, and for each of them and board the charge is \$5.25 a week. For all the other single rooms, and for half of each double room, together with board, the charge is \$6.25 a week. Students are charged with room rent but not with board during the vacations which occur in the academic year. The rate is \$2.50 a week for the majority of the rooms, \$4.50 and \$1.75 for the special rooms mentioned above. Payment for each term must be made in advance.

Laundry work is done in the house at a moderate price.

It is possible for students to obtain rooms very near the Slater Memorial Homestead and take their meals at the dormitory.

Desirable homes for students may also be obtained in private families. Lodgings, with or without board, may be secured on consultation with the Dean.

The Rhode Island School of Design

The Rhode Island School of Design, which was incorporated in 1877 and opened in Providence in 1878, is an institution of large and rapidly increasing importance for the education of artisans and artists in the principles and processes of art, and for the general advancement of education in art by the exhibition of works of art and art studies, and by lectures on art. Its school building and museum are near to Brown University, and its collections are open daily to the public free of charge. Through its ordinary and special exhibitions there is opened to students an important means of culture.

The Corporation and Faculty of Brown University have agreed with the authorities of the Rhode Island School of Design upon a plan of coöperation in accordance with which certain courses at this school will be open to students of Brown University, and will be counted as qualifications for a degree. A description of these courses and a statement of the conditions under which they may be elected will be found in the lists of studies given in the departments of Art and Drawing, on pages 62 and 75.

Students from the Rhode Island School of Design may be admitted to any classes in Brown University for which they are found to be prepared, and Brown University will give certain special courses for the benefit of classes from the Rhode Island School of Design.

Libraries

The libraries of the University consist of over one hundred and thirty thousand volumes. They comprise the main library, which occupies the Library Building, the gift of John Carter Brown of the class of 1816, the John Carter Brown Library recently given to the University, and the department libraries, which are placed in connection with the various laboratories and seminary rooms.

THE MAIN LIBRARY

Additions to the main library are constantly made with reference to the different courses of study, while at the same time there is kept in view the development of a library of general culture for the use of the students. Though many of the volumes are rare and costly, free access is allowed to the shelves. On the first two floors are arranged the books most in use, the entire west wing of the library on the first floor being given up to History, the north wing to Periodicals, Fine Arts and Social Science, and the east wing to Literature. The second floor is devoted to Philosophy, Theology, Geography, Education, Law, the Sciences and the Arts. In a separate room on this floor is shelved the Harris Collection of American Poetry. This collection, founded by Albert G. Greene and extended by C. Fiske Harris, was bequeathed to the University by Hon. Henry B. Anthony. It receives frequent additions, and now numbers over six thousand bound volumes, being perhaps the largest collection in the world devoted to the subject. On the third floor are kept certain collections, such as works devoted to Rhode Island History, Brown University, Baptist History, and Bibliography, besides many thousand volumes of works infrequently consulted, arranged according to the classification adopted for the lower floors.

On the first floor, upon the corner tables in the central reference room, are kept the latest numbers of the standard periodicals, American and foreign. Behind them, conveniently arranged, are books of reference, while various shelves, particularly those on the central table, are devoted to books reserved by the departments. In this room are the Select Library of attractive reading, the Loan Desk, where books are charged and returned, and the desk of the Reference Librarian, whose duty is to advise and assist students in their use of the books whether for class work or for private reading and research.

The library funds amount to about seventy-five thousand dollars. Of this sum ten thousand dollars constitutes the Gammell Fund for the purchase of books relating to the history of the United States; ten thousand dollars, the Olney Fund for the purchase of plants and botanical books; ten thousand dollars, the Diman Memorial Fund for the purchase of works on mediæval and modern history; and ten thousand dollars, the Banigan Fund for the purchase of books on mediæval and church history. The remainder includes several smaller special funds and the Library Fund proper.

The following persons are entitled to the use of the library without expense: The members of the Corporation and Faculty; other college officers; graduates residing in the state of Rhode Island; donors to the funds of the University to the amount of five hundred dollars residing in the state of Rhode Island; graduate and undergraduate students; and also other persons on whom the Corporation or the Library Committee may from time to time confer the privilege.

The library is open during term time from 9 A. M. to 11 P. M. on week days, and from 1 to 11 P. M. on Sundays; during vacations, from 10 A. M. to 4 P. M. on week days.

THE JOHN CARTER BROWN LIBRARY

The John Carter Brown Library, which has recently been given to the University by the Trustees under the provisions of the will of the late John Nicholas Brown, A. M., of the class of

1885, is a collection of about 15,000 volumes relating to the history of North and South America during the colonial period. The larger part of the books, many of which are of great rarity and value, were printed before the year 1800, and contain the earliest published accounts of events connected with the history of the discovery, exploration and colonization of the western hemisphere. This collection, which has long been well known up to the date of its transference to the University as the most valuable private library of Americana in existence, was begun by John Carter Brown of the class of 1816, and after his death was greatly enlarged by his widow and his sons, the late John Nicholas and Harold Brown.

Until transferred to its new building, now in process of erection, the library will be open only to properly qualified students, by whom arrangements to consult it may be made with the President of the University, the University Librarian, Professor MacDonald or the special Librarian of the John Carter Brown Library.

THE GERMANIC DEPARTMENT LIBRARY

In the two rooms occupied by the Germanic department in Sayles Memorial Hall is the Conant German Seminary Library, which was purchased in Germany by the late Professor Williams in the name of the principal donor, the Hon. Hezekiah Conant. The library now contains over six thousand carefully selected volumes, including editions of all the important writers in German literature; a large collection in Germanic philology; all the leading German literary and philological periodicals; many works upon German history, the history of German literature, and German law, art, palæography and geography. The library is especially rich in works of the Middle High German period, and in Goethe and Schiller literature. It possesses many works of art which illustrate the subjects taught, bronzes, framed engravings and volumes of plates. All the officers of the department have their private studies here, and are thus brought into daily contact with their advanced students. The rooms are open from 8 A. M. to 10 P. M.

THE CLASSICAL DEPARTMENT LIBRARY

The Albert Harkness Classical Seminary, named in honor of its founder, Professor Albert Harkness, Ph. D., LL.D., occupies a large room in Sayles Hall. It is furnished with a library of fifteen hundred volumes, purchased with funds contributed by friends of the University interested in classical studies. In selecting the books, the requirements of a good working library were studied with particular care. The most important collections of Greek and Roman authors, the best commentaries, reference books and similar aids are therefore to be found here; and the seminary is made the centre for advanced study and research in the classical languages and literatures. Though primarily intended for graduates, the seminary is open to such of the undergraduates as are qualified to profit by its advantages. The room is open from 9 A. M. to 10 P. M.

THE ROMANCE DEPARTMENT LIBRARY

In a room in Sayles Hall set apart for the use of advanced students in the Romance languages is a small but choice special library. Here all the graduate courses of the department are conducted, and one of the professors or instructors is constantly at hand to give informal assistance and advice to those admitted to the privileges of the collection.

THE BIBLICAL DEPARTMENT LIBRARY

For the use of students in the Biblical department a room in Sayles Hall has been equipped and provided with a selected reference library consisting of about one thousand volumes. A valuable collection of Semitic books has also recently been presented to the library by Mr. Jacob Shartenberg of Pawtucket. The room is open from 9 A. M. to 12 M., from 1.30 to 6, and from 7 to 10 P. M.; on Saturdays from 9 A. M. to 12 M. A curator is in attendance to assist students in verifying references.

BIOLOGICAL DEPARTMENT LIBRARY

In the rooms of the department of Comparative Anatomy in Rhode Island Hall is a carefully chosen collection of more than

twelve hundred volumes, to which additions are constantly made. Here also are kept the current periodicals bearing upon the work of the department. The rooms are open from 9. A. M. to 4 P. M.

EDUCATIONAL DEPARTMENT LIBRARY

The Library of the department of Education is in the Seminary Room of the department, Administration Building, room 10. The library contains nine hundred volumes, chiefly text-books of recent publication, and the beginning of an exhibit of school-room decorations. The room is open to all students interested in education. The teachers and friends of education in the city and state are cordially invited to avail themselves of the privileges which the room offers.

THE WOMEN'S COLLEGE LIBRARY

To the library and reading room of the Women's College are devoted two beautifully appointed rooms in Pembroke Hall. The library contains over fifteen hundred volumes, all recently purchased, and has a complete card catalogue. The aim of the collection is to furnish a reference library of standard literature, with special regard to the departments of study pursued, thus forming a convenient and valuable adjunct to the University Library for students of the Women's College.

OTHER SPECIAL LIBRARIES

Most of the other departments of the University have special collections of books for seminary and advanced laboratory work. The most important of these belong to the departments of Astronomy, Botany, Chemistry, Drawing, Economics, Engineering. Mathematics and Physics.

THE SEARS READING ROOM

The Sears Free Reading Room, supported by the Brown Young Men's Christian Association and open to both students and faculty, is a commodious and well-lighted room on the first

floor of University Hall, containing the most important newspapers and illustrated periodicals, the public telephone, and a piano for use at special social gatherings.

OTHER PROVIDENCE LIBRARIES

There are also practically at the service of the students of the University the six collections of books named below. These comprise with the University Library about four hundred thousand volumes, exclusive of pamphlets and manuscripts.

THE PROVIDENCE PUBLIC LIBRARY

All students of Brown University are welcome, upon the same conditions as other residents of the city, to use the carefully selected Public Library of Providence, which comprises 101,000 volumes. Its new building, situated at the corner of Washington and Greene streets, is one of the most beautiful and best planned library structures in America. It includes various special collections and departments. Its principal rooms are open regularly from 10 A. M. to 9 P. M.; on Sundays and legal holidays from 2 to 9 P. M. Among its special departments may be mentioned the Harris Collection on Slavery and the Civil War, on the third floor; the Educational Study-room and the "Standard Library" of best literature, on the second floor; and the Reference Department on the ground floor. About 530 periodicals, serials and annuals are currently received. The Library of the Rhode Island Medical Society is on the third floor. The library staff will be glad to be consulted with respect to books in any of the departments of University study, and to prepare lists of references in connection with any of the special topics under consideration.

THE LIBRARY OF THE PROVIDENCE ATHENÆUM

The Athenæum furnishes a home library larger and better than that within the means of any individual shareholder. Its growth is along the lines of general literature. The library numbers 64,000 volumes, and the reading room receives up-

wards of 200 papers and magazines, including New York, Boston and Providence daily papers, and American, English, German, French and Italian weeklies, magazines and reviews. In bound sets of periodicals this library is especially rich, also in its collection of art books. Professors or teachers, non-residents of the city, may become annual subscribers on the payment of four dollars in advance, and any student of Brown University whose family does not reside in the city, or who may obtain special privilege from the board of directors, may become a subscriber for three months on the payment of one dollar. The annual subscription for residents is six dollars. The Athenæum is open during the college year from 9 A. M. to 10 P. M. on week days.

THE LIBRARY OF THE RHODE ISLAND HISTORICAL SOCIETY

The Library of the Rhode Island Historical Society is situated on Waterman street, next door to the University Library Building. The library of the society comprises 20,000 bound volumes and 40,000 valuable unbound volumes and pamphlets. Through the courtesy of the society the collection is made accessible, free of charge, to members of the University. It offers special facilities for thorough research not only in all subjects relating to the history of Rhode Island, but also in many departments of general American history. Its library has also been recently enriched by a special bequest of books on the English and American drama, and by a collection of works on early American travels and ethnology. The collection is open from 9 A. M. to 4 P. M. on week days.

THE LIBRARY OF THE RHODE ISLAND MEDICAL SOCIETY

This valuable collection occupies an area of about 2,800 square feet in the new building of the Providence Public Library on Washington street, and comprises 16,500 volumes and numerous pamphlets upon medical science, including biology, physiology, physiological psychology, hygiene and other subjects the study of which is pursued in the University.

About 170 medical periodicals are currently received. Arrangements are easily made whereby any student can, without cost, enjoy the privileges here offered. This collection is open daily from 2 to 6 p. m.

THE STATE LAW LIBRARY

This collection of 25,000 volumes may be consulted in the Providence County Court House, at the corner of Benefit and College streets, between the hours of 9 A. M. and 5 P. M. on week days. It is accessible to all students, and for certain lines of University study is invaluable.

THE STATE LIBRARY

The State Library, located in the State House, is accessible to the public from 9 A. M. to 4 P. M.; on Saturdays from 9 A. M. to 12 M. This library contains a large collection of official documents of the United States and of the several states, as well as general works pertaining to history and political science. Students are cordially welcome.

Laboratories

THE LADD ASTRONOMICAL OBSERVATORY

The Observatory is equipped with a Saegmuller-Brashear equatorial of twelve inches aperture, which is supplied with a filar micrometer, spectroscope and other attachments; two transit instruments, one of which can be used as a zenith telescope; a chronograph; two astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in astronomy and for practical use in the applied courses open to undergraduates and graduates.

The Observatory furnishes constant time-signals to the Rhode Island Electric Protective Company, by which they are distributed to its patrons. Routine observations for determining clock errors, and for pressure, temperature, humidity and precipitation are made throughout the year. Special observations are also made as opportunity offers.

THE PHYSICAL LABORATORY

All the courses of instruction offered by the department of Physics are conducted in Wilson Hall. This building was specially designed and constructed for a physical laboratory. The general lecture room is large and well ventilated, and contains all the necessary conveniences for the experimental demonstration of lectures. Twelve laboratory rooms are available for the experimental study of physics, each room being fitted for the investigation of a particular branch of the subject or for the arrangement of classes according to proficiency. Brick piers support instruments requiring great steadiness, and the

magnetic rooms are as free as possible from iron and other disturbing influences. Several rooms on the ground floor are devoted to a laboratory for electrical engineering, and are well provided with machinery and instruments. Equipment for certain special investigations recently undertaken has been placed at the disposal of the department by friends of the University. Efforts have been made to develop the facilities for high temperature and high pressure work in the directions specified in courses 22 and 23. The cabinets are well supplied with apparatus both experimental and demonstrative, and frequent additions are made as necessity requires. In all such cases new property is selected with a view to use in the students' laboratory as well as in the lecture room, and to the exclusion of merely exhibitional apparatus. The department is in possession of a large assortment of historical and other photographs and lantern slides, as well as of cage models illustrating the propositions in pure and applied physics.

THE ANATOMICAL LABORATORY

The laboratories of the department of Comparative Anatomy are in Rhode Island Hall, and consist of private rooms for instruction, a laboratory for graduate students, a seminary room, a physiological laboratory, a laboratory for bacteriology and histology, a laboratory for neurology and embryology, and the large laboratory for elementary anatomy and the comparative anatomy of vertebrates and invertebrates.

All the laboratories are adequately equipped with appropriate reagents and apparatus. The very large collection of zoölogical material, the anatomical and histological preparations of the museum, the anatomical collection of the Rhode Island Medical Society, and rich material frequently contributed by the United States Fish Commission from the deep sea dredging excursions are always accessible to the students. Abundant living material is also readily available, since the laboratory is situated near the salt water and within a few miles of two floating laboratories located on opposite sides of Narragansett Bay.

The department library contains twelve hundred volumes of the more important works on biology. More than forty current biological periodicals are regularly received, and full sets of many of the most useful journals are upon the shelves. Students doing advanced work have access also to the Library of the Rhode Island Medical Society and to the Library of the Boston Society of Natural History.

THE CHEMICAL LABORATORY

The department of Chemistry occupies Rogers Hall, which was erected expressly for its use. Besides various subsidiary rooms the building contains the chemical lecture room and laboratories.

The students' *inorganic* laboratory is supplied with appropriate work tables and lockers, furnishing accommodations for about two hundred and fifty students working by detachments. Adjacent are the balance room, the furnace room, the professor's office, and the professor's laboratory.

The students' *organic* laboratory is fitted with work tables for about thirty students working by detachments. Each table has arrangements for gas, high pressure water supply, etc. The room has an excellent hood, besides large and accessible shelf room for apparatus and supplies. The library of the chemical department is here. Adjacent to this students' laboratory are other rooms, such as the lecture room, the professor's laboratory and the apparatus room.

THE BOTANICAL LABORATORY

The Botanical department occupies the entire basement of Maxcy Hall. The main lecture room and laboratory will accommodate thirty-seven students. A somewhat smaller room adjoining is used for a histological laboratory and will accommodate twelve students. Instruments and certain materials are provided. The Herbarium, on the same floor, is convenient for consultation and systematic study of native and foreign plants.

THE PSYCHOLOGICAL LABORATORY

The psychological laboratory occupies rooms in Wilson Hall. It possesses a considerable variety of apparatus for the study of sensations, the determination of discriminative sensibility, the measurement of the duration of mental processes, the detection of physiological accompaniments of changes in consciousness, the study of temperament, and other fields of research. This equipment is especially well adapted for the illustration and demonstration of the main results of experimental work in psychology. Experimental psychology, however, is a science of recent origin, and its many yet unsolved or even unsuspected problems offer a rich field for further investigation. The department aims to make contributions to knowledge on this subject by original research; and the apparatus already possessed, that which can be supplied by the University workshops or by purchase, together with what can be prepared in the laboratory itself to meet the demands of the particular problem, offer good facilities for undertaking such work.

THE MECHANICAL ENGINEERING LABORATORY

The laboratory, situated in the basement of Sayles Memorial Hall, is provided with excellent apparatus for making the most important tests on the strength of materials. The apparatus includes a 50,000-pound Riehlé testing machine, a machine for testing full-sized timber and steel beams; 50,000-inch-pound Olsen torsion testing machine, a Riehlé cement testing machine and the necessary auxiliary apparatus. Laboratory tests connected with the course in steam engineering use as a basis the various engines and boilers operated by the University. A Deane and a Worthington steam pump are connected with weighing tanks for the purpose of making accurate duty tests.

Unusual advantages for visiting engineering establishments are offered in the city of Providence. This opportunity has not been neglected and through the kindness of the owners the

following plants have proved a source of abundant information: Brown & Sharpe Manufacturing Company, Builder's Iron Foundry, Providence Engineering Works, William A. Harris Steam Engine Company, Colvin Foundry Company, Beaman and Smith Machine Company.

THE MECHANICAL ENGINEERING SHOPS

There are two shops, one for wood working and the other for metal working. The wood working shop is provided with large and small lathes; circular, band and jig saws; buzz and surface planers, and vertical boring and mortising machines. The metal working shop has several engine lathes of good sizes, hand lathes, a planer, a shaper, a milling machine, large and small vertical drills, a universal grinder, a surface grinder, and a cutter and reamer grinder. The machine tools are run by two ten-horse-power electric motors. Both shops are well supplied with benches and bench tools.

THE LABORATORY OF METALLOGRAPHY

The laboratory is in University Hall, opening from the drawing room, and is equipped with the necessary apparatus for investigating the nature and structure of metals and alloys. In connection with the laboratory is a properly equipped photographic dark room. The apparatus includes polishing machines for preparing specimens, an excellent Leitz microscope with accessories, including photographic apparatus, a thermo-electric pyrometer and lantern-slide apparatus.

THE MECHANICAL DRAWING ROOMS

The mechanical drawing rooms are on the top floor of University Hall and are reached through the south entrance. These rooms are large and well lighted and accommodate two hundred students. About two hundred and twenty-five valuable models in wood and metal have been collected. Many of these are mechanical in nature and are extensively used in the courses. The department possesses a dark room, exposure

frame and washing tank, for preparing and developing blue-prints. Connected with the main drawing room is a library and reading room in which may be found such books of the University Library as relate to drawing and allied subjects, together with other books which are owned by the department. A limited number of sets of drawing instruments have been provided for the use of deserving students who would otherwise be unable to pursue desired courses in drawing.

A large and well equipped drafting room has recently been erected over the mechanical engineering workshops for the use of the departments of civil and mechanical engineering. This room has desks for about sixty students and also contains the office of each department and the departmental libraries. A set of steel structural shapes and several hundred drawings and photographs have recently been acquired, which greatly facilitate the instruction in design.

THE NEW ENGINEERING BUILDING

A building will be erected at once on Lincoln field for the use of the departments of Mechanical Engineering and Drawing. The proposed building is to be 72 by 84 feet, three stories high, and is designed so that a later addition of nearly equal size may be made to provide room for all the engineering departments. Brick and stone will be used in the construction, and the design, while simple, is in harmony with the adjacent college buildings. The basement, which will be entirely above the ground, is to be 15 feet high and will be used as an engineering laboratory. This will contain the necessary machines and apparatus for experimental work in steam, pneumatic and hydraulic engineering and in strength of materials. On the second floor will be four large recitation rooms and a laboratory containing the lighter experimental apparatus. The third floor will be used entirely for drafting. Large windows throughout ensure ample light, while skylights of the sawtooth type will provide additional light for the drafting room. It is expected that the building will be completed by the beginning of the next college year.

Museums

THE MUSEUMS OF ZOÖLOGY AND ANTHROPOLOGY

The Museums of Zoölogy and Anthropology are in Rhode Island Hall, and are open to the public daily. Students desiring to use the collections for the purpose of study or investigation receive every encouragement, the aim being to make the museums not mere exhibition rooms, but places for work. The zoölogical and anatomical collections of the University form the Jenks Zoölogical Museum. The Museum of Anthropology contains a collection of articles of dress and rare implements from foreign countries, and a valuable collection of stone implements of aboriginal American races, including those of Rhode Island.

THE HERBARIUM

The Herbarium, situated in Maxcy Hall, consists mainly of various collections which have been given or bequeathed to the University. Those of Colonel Olney, Mr. Bennett, Dr. Bailey, Miss Stout and Mr. Brownell are the most prominent. The Olney collection is particularly rich in the genus *Carex*. The Stout collection consists mostly of ferns. In addition to these collections many specimens have been obtained by exchange, purchase and small donations. The Olney, Bailey and Stout collections are nearly all mounted; the remainder are mainly unmounted. These collections are merged in one general herbarium and deposited in cases. They were roughly estimated, a few years ago, to contain in all about 40,000 sheets, representing specimens from more than 60,000 localities. In 1902 Dr. Bailey's second herbarium was purchased by friends

and presented to the University. This is now being arranged and mounted, and will ultimately be merged in the general collection.

The arrangement of orders and genera of the flowering plants is at present according to Bentham and Hooker's *Genera Plantarum*; the ferns according to Hooker's *Synopsis Filicum*; the mosses according to Eaton's list. These are soon to be arranged according to Engler and Prantl's *Natürliche Pflanzenfamilien*. To these is added the nucleus of a collection of seeds.

Many portraits of famous botanists hang on the walls of the Herbarium room. For these the University is indebted to the generosity of Mr. Charles H. Smith and Miss Hunt of Providence, Casimir de Candolle of Switzerland, Dr. Kennedy of Readville, Mass., and others. A painted portrait of Colonel Stephen T. Olney, the founder of the department, has been presented to the Herbarium by his niece, Mrs. F. H. Peckham.

THE MUSEUM OF FINE ARTS

The Museum of Fine Arts occupies the first floor of Manning Hall. It contains plaster casts of rare excellence, chiefly from works of classical sculpture, which are of great value in illustrating ancient history, biography and art. It also contains a few bronzes and oil paintings.

PORTRAITS

The University possesses a large number of valuable portraits. Most of them are hung in Sayles Memorial Hall, which is thus made one of the chief centres of attraction on the University grounds. The collection receives accessions every year. It now includes portraits of the University's principal benefactors, of many of its former officers, and of many other distinguished persons, Americans and foreigners, the history of Rhode Island being especially well represented.

Physical Culture

A certain amount of systematic physical training is required of every undergraduate connected with the University unless he is physically unable to engage in it.

Upon entering the University every student receives a thorough physical examination by the Director of Physical Culture. From this examination a chart is made out for the student, showing his size, strength and development, and how he compares with the normal standard. Along with these data is given a card indicating how any weakness that may exist is to be remedied, and affording advice in reference to bathing and the general care of the body.

From January until April every student is required to exercise three hours a week in the Lyman Gymnasium. Most of this exercise occurs in classes. For class drill, the Freshmen swing Indian clubs, the Sophomores employ dumb bells, the Juniors engage in single-stick exercise, the Seniors use fencing foils. As a supplement to these drills each class is separated into four divisions, which perform exercises upon chest-weights, horizontal and parallel bars and other apparatus. The movements executed are graded to correspond with the strength and advancement of the several divisions. During the Sophomore and Junior years boxing and wrestling are carried on also in classes. These forms of exercise, carefully conducted, prove to be in the highest degree popular and beneficial. The remainder of the required three hours a week each student devotes to the fulfillment of the directions given him on the card made out from the measurements taken at the beginning of the year. Each student is regularly marked and credited in his gymnasium work on the basis of faithfulness and punctuality.

The gymnasium has been enlarged during the present year by the erection of a swimming pool, the gift of Colgate Hoyt,

Esq., of New York. The structure is finished in enameled brick and marble, and is supplied with a filter, through which the water will be passed before going into the pool, to ensure its clearness and purity. The dimensions of the pool itself are 75 by 25 feet.

In addition to the exercises in the gymnasium, every effort is made to encourage interest in outdoor sports and participation in them at proper seasons of the year. Regular exercise in the open air is urged upon students as of very great importance. Lincoln field adjoins the gymnasium, and Andrews field, about a mile from the University, is available for all forms of athletic contests.

The general control of all athletic organizations is in the hands of a committee of the Faculty.

HOSPITAL BEDS

The University owns two free beds in the Rhode Island Hospital, to the occupancy of which the President of the University has the right of appointment. The first of these, THE CHARLES SMITH BRADLEY FREE BED, was established in 1872 by a payment to the hospital of four thousand dollars by the late Judge Bradley, a member of the Board of Fellows, thereby endowing a free bed "under the control of the President of Brown University for the time being, for the benefit of any officer or student of that institution who may have occasion for it." The second, THE GEORGE IDE CHACE FREE BED, was established by a payment to the hospital of a like sum by the late Professor George Ide Chace; this foundation gives to the President of the University "the right to nominate and send to said hospital a patient, being a proper subject for treatment in said hospital, according to the rules of the institution to occupy a bed in said hospital, and to receive the usual care, and medical, surgical and other attendance, and medicines and board, free of charge."

Advantages for Teachers

REGISTRATION OF TEACHERS

A Committee on Registration of Teachers has been appointed for the purpose of putting into communication institutions requiring teachers and graduates of Brown who are qualified to teach. To this end it solicits correspondence with those who are seeking well equipped teachers, and invites inspection of its list of such teachers now registered. It advises graduates of Brown who wish the assistance of the committee to register at once, and, if possible, to meet the Secretary in a personal interview. It offers to undergraduates information as to subjects in which there is a demand for teachers, as to positions commonly open to recent graduates, and as to the preparation usually required. No charge for the services of the committee is made either to students or to schools. The office of the Secretary of the committee is in the Administration Building, Room 10.

STUDENT-TEACHERS

By special arrangement with the School Committee of the City of Providence, student-teachers are appointed to places in the Providence High Schools. Appointments are made from members of the Senior class who have pursued undergraduate courses in Education. These student-teachers are of two types. Those of the first type—of whom there are at least six (three of each sex)—under the guidance and direction of experienced teachers, have the control and conduct of classes. The time required each day is somewhat more than half the usual school session. They receive a salary of four hundred dollars a year from the city. Those of the second type are occupied in a similar way from three to five hours a

week. They receive no remuneration from the city. An unusual opportunity is thus afforded student-teachers to gain a thorough knowledge of the theory of education and at the same time practical experience in the art of teaching. In making appointments to places as teachers of the lowest grade in the Providence High School, preference is given to those who have successfully accomplished the course as student-teachers. In this respect student-teachers of the second type have the same status before the committee that makes appointments as those of the first type.

Student Advisers

Under the system of student advisers instituted in the University every member of the Freshmen class is assigned to some member of the Faculty, who serves throughout the year as a special counsellor and friend to that student. The preferences of students and advisers are consulted when practicable. It is believed that many students are graduated from the University without that personal acquaintance with the Faculty which is usual in smaller institutions. Under the elective system students are frequently at a loss to decide upon courses of study. On these and other matters the student will be at liberty at any time to seek the counsel of his adviser. The relation between the student and his adviser, being voluntary to each, is designed to be perfectly fraternal.

Religious Life of the University

Brown University was founded by men of deepest religious impulse and unswerving faith in Christianity. While no religious tests are ever imposed on any officer or student, but perfect freedom is guaranteed to all, the authorities of this University believe that the religious development of students is a matter of primary importance, and that no intellectual culture can compensate for the atrophy of the religious nature. The atmosphere of the University is frankly and unequivocally Christian.

Chapel exercises are held in Sayles Hall every morning on week days at 8.40. At the same hour the Women's College has its chapel service in Pembroke Hall. The President usually conducts the exercises at Sayles Hall, and the Dean of the Women's College conducts the service at Pembroke Hall. Attendance is required for undergraduate students.

During the winter a series of vesper services is held at Sayles Hall on Wednesday afternoons at five o'clock, open both to students and to the public. The preachers last year were as follows: Professor Francis G. Peabody, D. D., of Harvard University; Rt. Rev. Henry C. Potter, D. D., of New York; Rev. Alexander McKenzie, D. D., of Cambridge; Rev. S. Parkes Cadman, D. D., of Brooklyn; Rev. Frank M. Bristol, D. D., of Washington; Rev. Orrin P. Gifford, D. D., of Buffalo; Rev. Newell Dwight Hillis, D. D., of Brooklyn, and President Faunce.

All students are desired and encouraged to attend church on Sunday, and the churches of the city are most cordial in their attitude toward the student body.

The Brown University Young Men's Christian Association has now about 350 members, and is doing a deeply needed

work. Its work is supervised by a graduate Advisory Committee, consisting of Mr. Gardner Colby, '87, Mr. W. R. Dorman, '92, Professor J. Q. Dealey, '90, Mr. J. A. Pirce, '92, and Mr. John D. Rockefeller Jr., '97. This committee have engaged as Secretary of the Association Mr. Jeremiah Holmes, '02, who gives one half his time to the work. The Association holds religious meetings every week, organizes Bible classes, assists in philanthropic work in the city, supports the Sears Reading Room and conducts an employment bureau with good results. Last year many students obtained through this bureau opportunities for partial or complete self-support.

The students of the Women's College have their Christian Association, organized along similar lines. Several of the different religious denominations represented in the University have their associations or clubs for mutual acquaintance and sympathy.

Attendance, Examinations and Reports

REGISTRATION AND ATTENDANCE

All undergraduate students and resident graduate students who desire to attend the University during a given term are required to register at the Registrar's office before the first day of such term. Every undergraduate student registered or re-registered on or after the first day of any term is charged for such registration or re-registration a fee of three dollars, to be remitted only by the President or the Dean, and only on presentation of a substantial excuse for the lateness or the change. Any modification of a registration once made is accounted a re-registration.

Each student is expected to attend the daily chapel service and also every exercise in the several studies to which he is assigned.

EXAMINATIONS AND STANDING

Except in laboratory, seminary and similar work, all classes are examined at the close of each term.

A student is not admitted to examination in a study in which his term work is unsatisfactory to the officer of instruction or from which he has been absent one-half of the time assigned to the study.

The standing of students is indicated by letters as follows:

H is assigned to those whose work has been exceptionally good.

C is assigned to those who have passed with credit.

P is assigned to those who have passed in the subject, but deserve no higher recognition.

F is assigned to those whose work during the term has been so unsatisfactory that in the opinion of the instructor they should not be allowed an examination, or to those whose examination has been so unsatisfactory that it should, in the opinion of the instructor, constitute a failure without regard to the work of the term, or to those who in the combined work of the term and the examination have failed to pass in the subject.

I is assigned to those whose work is incomplete, but satisfactory so far as done.

Abs is assigned to those who are absent from examination, unless *F* has already been assigned.

Whenever a student's absence from examination has not been excused by the Committee on Absences, the mark *Abs* is changed to *F*.

A student who receives the mark *F* must pursue the subject again with a succeeding class, or if the instructor allows, under a tutor appointed by the head of the department; or, if the failure is in an elective course, he may take as a substitute some other course approved by the Committee on Admission to Advanced Standing.

Examinations other than those regularly appointed are not held except in case of (1) candidates for advanced standing whose examinations are authorized by the Committee on Admission to Advanced Standing, (2) students detained from the regular examination whose absences have been excused by the Committee on Absences, (3) students who have been allowed to pursue, under appointed tutors, studies in which they have failed at a regular examination.

A student who wishes to take a special examination must obtain from the Registrar a written authorization, for which he shall pay a fee of \$2.00, unless this is remitted by the President or the Dean, and must then arrange with the officer of instruction for the examination. In case of failure the authorization must be signed by the tutor; in case of absence, by the chairman of the Committee on Absences.

A student who at the close of a term has failed in three or more studies, counting for more than eight hours of work a week, cannot be again registered without special action of the Faculty.

REPORTS OF ATTENDANCE AND PROFICIENCY

A careful record is kept of the attendance of every student of the University, and of his proficiency in his several studies. The standing of every undergraduate student is determined at the close of each term. A report is sent to the parent or guardian of every undergraduate student, containing the record of all absences from required exercises, indicating his standing in each of his studies for the term, and announcing his deficiency in any study or studies if such deficiency exists.

Expenses

Upon registration every student is required to present a guarantee covering all his college expenses, signed by his parent or guardian, or other responsible person.

Term bills are due, and must be paid or their payment secured on presentation, at the beginning of each term.

REGULAR UNIVERSITY DUES

UNDERGRADUATE CANDIDATES FOR DEGREES

The dues of each undergraduate candidate for a degree are as follows:

Tuition, \$35 a term; \$105 a year.

General incidentals, \$15 a term; \$45 a year.

The incidental expenses are for the printing of programs, examination papers, and the like, the use of the library and gymnasium, heat for these and for the halls and recitation rooms, and the wages of servants to care for the same.

Every undergraduate candidate for a degree pays, upon matriculation, a fee of \$5.

Every member of the Senior class pays upon graduation a fee of \$8 for his diploma and other extra expenses connected with graduation.

For laboratory dues, see below.

For expenses of college rooms, see below.

Students leaving college before the middle of a term, unless for misconduct or failure in scholarship, pay in tuition, incidentals and laboratory fees (exclusive of breakage, which is charged at cost) only half the usual term dues. Students leaving college on account of misconduct or failure in scholarship receive no reduction.

SPECIAL STUDENTS

Special students in the University pay, as a rule, full tuition and incidentals, but the charge is proportionately less when students are admitted to courses of less than fifteen hours of class attendance a week.

GRADUATE STUDENTS

The fees for graduate students in residence are:

Tuition, \$50 a term; \$150 a year.

Examination for the degree of MASTER OF ARTS, \$15.

Examination for the degree of DOCTOR OF PHILOSOPHY, \$25.

Laboratory dues, see below.

A candidate in residence for the degree of MASTER OF ARTS who has paid tuition for one year may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge.

A candidate in residence for the degree of MASTER OF ARTS who, without remitting his studies, becomes a candidate for the degree of DOCTOR OF PHILOSOPHY is credited with whatever tuition he has already paid, in case his previous work is allowed to count toward the higher degree.

A candidate for the degree of DOCTOR OF PHILOSOPHY who has paid tuition for two years may, without additional charge, continue his studies for two years more if necessary to the attainment of his degree.

The fees for a non-resident candidate for the degree of MASTER OF ARTS are:

Registration fee, \$25.

Tuition, \$10 a term; \$30 a year.

Examination fee, \$15.

For laboratory dues, see below.

A non-resident candidate is entitled, upon payment of the above fees, to pursue one three-hour course at the University. For each additional one-hour course \$5 is charged; for each additional two-hour or three-hour course, \$10.

A non-resident candidate who has paid tuition for two years may, if necessary to the attainment of his degree, continue his

studies for two years more without additional charge, except for work taken in class-room, as stated in the preceding paragraph.

Graduate students not candidates for a degree pay for each course of one hour a week, \$5; for each course of two or three hours a week, \$10.

SPECIAL LABORATORY DUES

Graduate students are charged \$5 a term for a three-hour laboratory course. No graduate student, however, whose tuition fees are paid is charged, aside from breakage, more than \$35 a term for all laboratory work.

CHEMISTRY

Students who take courses 1, 2 or 3 are charged \$3 a term, in addition to the regular charges for tuition.

Students who take advanced courses in analytical chemistry are charged \$5 a term for a three-hour course, and \$10 for a six-hour course, in addition to the regular charges for tuition.

Graduate students pay the same fees as undergraduate students.

The above fees include the use of common chemicals, but students are charged for breakage and special chemicals.

PHYSICS AND ENGINEERING

Students who take courses in the physical laboratory pay \$5 a term for a three-hour course (six hours attendance).

Students who take shop work pay \$5 a term for a three-hour course (six hours attendance).

BOTANY

Students who take courses in Botany pay \$3 a term.

COMPARATIVE ANATOMY

The charge for a laboratory course is usually about \$5.

ESTIMATE OF ANNUAL EXPENSES

The following is an approximate estimate of the annual expenses of a student occupying (with a roommate) a dormitory room, without including clothes, traveling or other strictly personal expenses.

	Minimum	Medium	Maximum
Tuition.	\$105	\$105	\$105
Incidentals.	45	45	45
Room rent, including heat and service .	25	60	125
Board (40 weeks)	100	150	280
Books and laboratory expenses.....	10	30	75
Total.	\$285	\$390	\$630

Matriculation fee (first year), \$5.

Graduation fee (fourth year), \$8.

Board is not furnished by the University; but a list, kept by the Steward, of eligible families in the city where board can be obtained, is always accessible to the students. THE BROWN UNIVERSITY CO-OPERATIVE REFECTORY, organized and controlled by students, furnishes its shareholders with board at cost. At present the price is \$3.75 a week.

Students needing to increase their incomes through their own exertions find in the city numerous opportunities for doing so by giving private instruction, by teaching in evening schools and by other occupations not necessarily inconsistent with their college duties.

Dormitory Accommodations

In the College Dormitories there are in all one hundred and twenty-two single rooms and twenty-three suites.

The rooms in Hope College, University Hall, Slater Hall and the College Street House are rented entirely unfurnished. Those in Maxcy Hall contain all necessary furniture, occupants providing nothing except bed linen and towels.

The prices given in the following tables include rent, heat and service for the college year. In the College Street House the gas is included. In Slater Hall, University Hall, Hope College and Maxcy Hall there are gas meters for each room and the occupants are charged for the gas used each term.

A new dormitory is now being erected on the southeast corner of Lincoln Field fronting on Thayer Street, and will probably be ready for occupancy in September. The plans provide for the erection of a building thoroughly modern in every respect. The north and south sections will be devoted to suites provided with private baths, etc., while the middle section will contain single rooms. All the rooms in the building will be furnished by the University. Further particulars can be obtained by addressing the Registrar.

ROOM CONTRACTS

Each student renting a room must sign a contract therefor in the form given below, on which surety may be demanded, binding him to pay or see paid the rent of the room through the entire year. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the University, whatever the cause of such removal.

For each day roomer the University makes an extra charge of one dollar per term for service. This sum is paid to the University by the tenant in chief if there is but one; if there are more, it is divided equally among them.

The following conspectus shows the rent and location of each dormitory room controlled by the University.

HOPE COLLEGE						UNIVERSITY HALL					
No.	Division	Floor	Windows Face	Bedrooms	Rent	No.	Division	Floor	Windows Face	Bedrooms	Rent
1	South	1	E. & S.	Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44, can be used either as suites or as single rooms.	\$123	4	South	1	W.	None	\$150
2	"	"	W. & S.		129	10	"	2	S. & W.	2	250
3	"	"	W.		123	12	"	"	W.	None	115
4	"	"	E.		120	13	"	"	W.	"	115
5	"	2	E. & S.		123	16	"	"	E.	"	100
6	"	"	W. & S.		129	17	"	"	E.	"	106
7	"	"	W.		123	18	"	"	E. & S.	"	133
8	"	"	E.		120	19	"	3	S. & W.	2	240
9	"	3	E. & S.		114	21	"	"	W.	None	112
10	"	"	W. & S.		120	22	"	"	W.	"	112
11	"	"	W.		114	25	"	"	E.	"	100
12	"	"	E.		108	26	"	"	E.	"	100
13	"	4	E. & S.		108	27	"	"	E. & S.	"	121
14	"	"	W. & S.		114	28	"	4	S. & W.	2	220
15	"	"	W.		108	30	"	"	W.	None	100
16	"	"	E.		105	31	"	"	W.	"	100
17	Middle	1	E.		120	32	"	"	E.	"	97
18	"	"	W.		123	33	"	"	E.	"	97
19	"	"	W.		123	34	"	"	E. & S.	"	121
20	"	"	E.		120	36	North	1	College Book Store		
21	"	2	E.		120	40	"	2	W.	None	115
22	"	"	W.		123	41	"	"	W.	"	115
23	"	"	W.		123	43	"	"	W. & N.	2	250
24	"	"	E.		120	44	"	"	E. & N.	None	121
25	"	3	E.		108	45	"	"	E.	"	106
26	"	"	W.		114	46	"	"	E.	"	100
27	"	"	W.		114	47	"	3	W.	"	106
28	"	"	E.		108	48	"	"	W.	"	106
29	"	4	E.		105	50	"	"	W. & N.	2	240
30	"	"	W.		108	51	"	"	E. & N.	None	115
31	"	"	W.		108	52	"	"	E.	"	100
32	"	"	E.		105	53	"	"	E.	"	100
33	North	1	E.		120	54	"	4	W.	"	100
34	"	"	W.		123	55	"	"	W.	"	100
35	"	"	W.		135	57	"	"	W. & N.	2	210
36	"	"	E.		135	58	"	"	E. & N.	None	115
37	"	2	E.		120	59	"	"	E.	"	97
38	"	"	W.		123	60	"	"	E.	"	97
39	"	"	E. & N.		135						
40	"	"	E. & N.		135						
41	"	3	W.		108						
42	"	"	W.		114						
43	"	"	W. & N.		123						
44	"	"	E. & N.		123						
45	"	4	E.		105						
46	"	"	W.		108						
47	"	"	W. & N.		114						
48	"	"	E. & N.		114						

MAXCY HALL

No.	Floor	Windows Face	Rent
201	2	E.	\$140
202	"	"	140
203	"	E. & S.	140
204	"	W. & S.	135
205	"	W.	135
206	"	"	135
207	"	"	135
208	"	"	135
209	"	W. & N.	135
210	"	E. & N.	140
211	"	E.	140
212	"	"	140
313	3	"	140
314	"	"	140
315	"	E. & S.	140
316	"	W. & S.	135
317	"	W.	135
318	"	"	135
319	"	"	135
320	"	"	135
321	"	W. & N.	135
322	"	E. & N.	140
323	"	E.	140
324	"	"	140
425	4	"	140
426	"	"	140
427	"	E. & S.	140
428	"	W. & S.	135
429	"	W.	135
430	"	"	135
431	"	"	135
432	"	"	135
433	"	W. & N.	135
434	"	E. & N.	140
435	"	E.	140
436	"	"	140

COLLEGE ST. HOUSE.

1	2	E.	100
2	"	W. & N.	125
3	"	E. & S.	150
4	"	S. & W.	140
5	"	S.	100

SLATER HALL

No.	Division	Floor	Windows Face	Bedrooms	Rent
1	South	1	E. S. & W.	2	\$260
2	"	"	E. & W.	1	200
3	"	2	E. S. & W.	2	260
4	"	"	E. & W.	2	245
5	"	3	E. S. & W.	2	250
6	"	"	E. & W.	2	245
7	"	4	E. S. & W.	1	175
8, 9	"	"	W.	1	194
10	North	1	E. W.	2	245
11	"	"	E. W. & N.	2	245
12	"	2	E. W.	2	245
13	"	"	W.	None	81
14	"	"	W. N. E.	2	260
15	"	3	W. E.	2	240
16	"	"	W.	None	70
17	"	"	W. N. E.	2	250
18, 19	"	4	E. W.	1	188
20	"	"	W. N. E.	1	160

DIRECTORY TO THE DORMITORIES

College Street House, Rooms 1 to 5.

Hope College, South Division, Rooms 1 to 16.

Hope College, Middle Division, Rooms 17 to 32.

Hope College, North Division, Rooms 33 to 48.

Maxcy Hall, Rooms 201 to 436.

Slater Hall, South Division, Rooms 1 to 9.

Slater Hall, North Division, Rooms 10 to 20.

University Hall, South Division, Rooms 1 to 34.

University Hall, North Division, Rooms 35 to 61.

Financial Aid to Students

The aid which Brown University is able to offer students of limited means is granted under three conditions: (1) The recipient must be a candidate for a degree, having been fully admitted to the Freshman class or to advanced standing; (2) the recipient must be of good moral character and maintain a creditable standing in his studies; the aid is withdrawn if the student is placed under college discipline or fails to maintain good scholarship; an average *C* on the marking system now in use is expected; (3) the recipient must be in need of the financial assistance rendered. An application upon a blank form prepared for this purpose must be made to the Committee on Scholarships.

The aid rendered is of three kinds: (1) Loans; (2) Gifts; (3) Work for which wages are paid.

A. LOAN FUNDS

The University has two funds available for this purpose:

I. The Alumni Loan Fund, now amounting to about \$4,300. This fund was established by the Alumni Association at the Commencement of 1900 by a vote transferring to the Treasurer of the University the fund formerly known as the Brown Loyalty Fund, to be used as a loan fund for students. The principal of this fund is loaned at interest, to be repaid as agreed upon in each instance.

II. A fund of several hundred dollars, which is loaned in small amounts without interest, for short periods to students unexpectedly needing temporary assistance.

B. FELLOWSHIP, SCHOLARSHIP AND AID FUNDS

1. FELLOWSHIPS FOR GRADUATE STUDENTS

GRAND ARMY OF THE REPUBLIC FELLOWSHIP

In 1891 the Grand Army of the Republic, Department of Rhode Island, gave to Brown University the sum of ten thousand dollars, to be forever known as the Grand Army of the

Republic Fellowship Fund. Only the income of the fund can be used. This income is for the aid of the graduate of Brown University, of acknowledged excellence in scholarship and character, who before accepting this fellowship must be enrolled as a candidate for the degree of Doctor of Philosophy, unless he has already received that degree, and who will reside at Brown University and devote his entire time to the pursuit of advanced liberal study. The intention is that the income for any year shall all go to the same person, except in case of his death, or his resignation or forfeiture of the fellowship, when a successor may be appointed for the remainder of the year. Holders of the fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows; but the descendants of Union veterans of the Civil War of 1861-65 are always to be preferred when the other qualifications of candidates are equal. No consideration touching the political or religious preferences of candidates can ever enter into the appointments. Appointments to the fellowship are regularly made for one year, but incumbents of special diligence or ability may be reappointed. The President is authorized to make for the reception and use of the income from this fund such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper. Applications for this fellowship must be made in writing on blanks furnished by the Secretary of the Committee on Graduate Students, and must be in the hands of the President not later than the fifteenth of May. The Grand Army of the Republic Fellow for 1902-03 is

CLARENCE ELNATHAN NORRIS, A. M.

PHILADELPHIA ALUMNI FELLOWSHIP

This is another fund, to be ten thousand dollars, which the Philadelphia Alumni Association of Brown University will soon render available. Its general purpose is to assist graduate students of special ability in pursuing advanced studies at the University.

2. FUNDED SCHOLARSHIPS

These are funds, presented to the University at various times, the incomes of which are awarded annually according to the conditions attaching to each. The early scholarships, established when the rate of interest was higher than at present, and the cost of education less, were each of \$1,000. There are now seventy-six scholarships of this amount, each with a designated name and yielding the beneficiary \$45 annually; with the exceptions indicated, they bear the names of their founders.

THE ELEVEN NICHOLAS BROWN SCHOLARSHIPS.

THE FOUR UNIVERSITY SCHOLARSHIPS.

THE PRESIDENT'S (SEARS) SCHOLARSHIP.

THE SIX ALVA WOODS SCHOLARSHIPS.

THE JAMES H. DUNCAN SCHOLARSHIP.

THE ISAAC DAVIS SCHOLARSHIP.

THE ARNOLD WHIPPLE SCHOLARSHIP, founded by Mrs. Arnold Whipple.

THE EPHRAIM WHEATON SCHOLARSHIP, founded by James Wheaton.

THE JOSEPH BROWN SCHOLARSHIP, founded by Mrs. E. B. Rogers.

THE GARDNER COLBY SCHOLARSHIP.

THE CROCKER SCHOLARSHIP, founded by Robert H. Ives and Thomas P. Ives, trustees.

THE CLARK SCHOLARSHIP, also founded by the Messrs. Ives.

THE GEORGE K. AND H. A. PEVEAR SCHOLARSHIP.

THE JOSEPH C. HARTSHORN SCHOLARSHIP I.

THE ROGERS HIGH SCHOOL SCHOLARSHIP, founded by William Sanford Rogers.

THE JAMES WHEATON SCHOLARSHIP.

THE CHARLES THURBER SCHOLARSHIP.

THE PARDON MILLER SCHOLARSHIP, founded by Mrs. Ann E. Miller.

THE HEZEKIAH S. CHASE SCHOLARSHIP.

THE WILLIAM BUCKNELL SCHOLARSHIP.

THE AUSTIN MERRICK SCHOLARSHIP, founded by Mrs. Olive E. Merrick.

THE HORATIO N. SLATER SCHOLARSHIP.

THE EARL P. MASON SCHOLARSHIP.

THE NEWPORT SCHOLARSHIP, founded by William Sanford Rogers.

THE ALEXIS CASWELL SCHOLARSHIP.

THE THREE (HENRY) JACKSON SCHOLARSHIPS.

THE MUMFORD SCHOLARSHIP, founded by Mrs. Louisa D. Mumford.

THE ALBERT DAY SCHOLARSHIP.

THE HENRY P. KENT SCHOLARSHIP.

THE ROMEO ELTON SCHOLARSHIP.

THE FIVE ANNIE E. WATERS SCHOLARSHIPS.

THE L. FAIRBROTHER SCHOLARSHIP, founded by Mrs. L. Fairbrother.

THE GEORGE LAWTON SCHOLARSHIP.

THE JOHN P. CROZER SCHOLARSHIP, founded by Mrs. Margaret Bucknell.

THE JAMES Y. SMITH SCHOLARSHIP.

THE TWO S. S. BRADFORD SCHOLARSHIPS.

THE FRANCIS R. ARNOLD SCHOLARSHIP.

THE CORNELIA E. GREEN SCHOLARSHIP.

THE HENRY CLIFFORD KNIGHT SCHOLARSHIP, founded by Miss Amelia S. Knight, in memory of her brother of the class of 1875.

THE THURSTON SCHOLARSHIP, founded by the Hon. Benjamin F. Thurston, LL. D., of the class of 1849.

THE RUFUS BABCOCK SCHOLARSHIP, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, the Rev. Rufus Babcock, D. D., of the class of 1821.

THE JAMES FLETCHER BLACKINTON SCHOLARSHIP, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton of the class of 1847.

THE FIVE WILLIAM A. WHITE SCHOLARSHIPS, founded by Mrs. Abby S. A. White, in honor of her husband, William A. White of the class of 1857.

THE RICHARDS SCHOLARSHIP, founded by the Rev. William Coolidge Richards of the class of 1837.

THE SAMUEL WHITE DUNCAN SCHOLARSHIP, founded by Mrs. Mary Duncan Harris.

THE S. DRYDEN PHELPS SCHOLARSHIP, founded by the Rev. S. Dryden Phelps, D. D., of the class of 1844, the income to be given each year to some student who is preparing for the Baptist ministry.

THE BENJAMIN HUTCHINSON JUDAH SCHOLARSHIP.

Besides the above scholarships there are others of larger amounts, as follows:

THE TWO GEORGE J. SHERMAN SCHOLARSHIPS, paid from a fund of \$2565.

THE BARTLETT SCHOLARSHIP of four thousand dollars, founded by Mrs. Elizabeth Slater Bartlett, the income to be "devoted to the support

of one or more students needing pecuniary aid, and giving promise, by studious aim and by character and scholarship, of rising to distinction and usefulness."

THE GLOVER SCHOLARSHIP of five thousand dollars, founded by Henry R. Glover "in memory of his father, Samuel Glover of the class of 1808, and of his brother, Samuel Glover, Jr., of the class of 1839."

THE REBECCA A. WHEELER SCHOLARSHIP of fifteen hundred and seventy-one dollars, founded by the lady whose name it bears, the income to assist some worthy student, preferably a candidate for the Baptist ministry.

THE SCHOLARSHIP OF THE CLASS OF 1838 of thirty-eight hundred dollars.

THE JOSEPH CHARLES HARTSHORN SCHOLARSHIP II of two thousand dollars.

THE BANIGAN SCHOLARSHIPS I AND II, of three thousand dollars each, founded by the late Joseph Banigan of Providence, the income as far as necessary to be used each year to defray the tuition of two students of the University.

THE GEORGE IDE CHACE SCHOLARSHIP of five thousand dollars, founded by Professor George Ide Chace, the income to be assigned each year by the Faculty to some member of the Senior class, needing the money, who shows "marked ability, exemplary industry, generous aspirations and irreproachable character."

THE ABBY WHEATON CHACE SCHOLARSHIP of four thousand dollars, also founded by Professor George Ide Chace, the income to be assigned yearly by the Faculty to some member of the Junior class, needing the money, who shows "marked ability, exemplary industry, generous aspirations and irreproachable character."

If either in the Senior or in the Junior class there chances to be no person fulfilling the requirements of either of these two scholarships, the proceeds of the scholarship for that year must, under the proper direction, be appropriated to the purchase of books for the library of the University.

THE JOHN L. LINCOLN SCHOLARSHIP of twenty-five hundred dollars, and the TRUMAN BECKWITH SCHOLARSHIP of twenty-five hundred dollars, founded by the late Abby G. Beckwith.

THE THAYER SCHOLARSHIP, founded by Edward C. Thayer in honor of his father, Joseph Thayer of the class of 1815, the income to be for the education of any young man or woman, a resident of Uxbridge, Mass., endorsed by the selectmen and superintendent of schools there, needing pecuniary aid and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfills the conditions.

THE WALTER G. WEBSTER SCHOLARSHIPS, founded by Walter G. Webster of the class of 1878, the income to go each year to two young men, members of the Freshman class, holding the full diploma of the Classical High School of the city of Providence and duly matriculated for the degree of Bachelor of Arts; "the nomination to rest with the Principal of said school, and to be made on the basis of character and scholarship, due regard being had to the need of such assistance."

The following scholarships have been in part established:

THE S. W. MARSTON SCHOLARSHIPS, endowed by E. L. Marston in the name of his father.

THE TWO GEORGE HALE BACON MEMORIAL SCHOLARSHIPS, paying each recipient \$150 a year, founded by George A. Bacon in the name of his father. The awards are to be made only to young men in need of assistance, and to be given solely on grounds of scholarship and personal character, no other consideration to receive any weight whatever.

3. AID FUNDS

These are two in number, and their income is divided into scholarships of varying amounts, which are awarded under the general conditions applicable to all scholarships.

The Aid Fund, established by friends of the University in 1868, and now amounting to \$9,300.

The Daniel W. Lyman Fund for students, established by the late Daniel W. Lyman, and now amounting to \$72,250.

4. UNIVERSITY SCHOLARSHIPS

In addition to the income of the Scholarship and Aid Funds, the Advisory and Executive Committee of the Corporation appropriates each year a large sum of money from the Common Fund of the University for the assistance of students. This amount at present exceeds \$15,000, and is used for the establishing of University Scholarships, which are of three grades:

(1) A small number yielding each \$50 a term or \$150 a year, paying the whole college bill for tuition and incidentals, awarded to a few Juniors and Seniors of specially high scholarship.

(2) A number yielding each \$35 a term or \$105 a year.

(3) A number yielding each \$20 a term or \$60 a year, used in part to supplement the smaller endowed scholarships, and also for those needing relatively less assistance.

The University Scholarships are taken directly from the college treasury and therefore use funds which would otherwise be available for other college purposes. It is expected, therefore, that the holders of them will regard them as in a certain sense a loan, and will at some subsequent time after graduation return to the treasury the amount awarded, to be used for the increase of the permanent scholarship funds, or will in some other way contribute to the endowment of the University.

C. SERVICE

The University is able to give employment to a number of students as monitors, assistants in the library and laboratories, members of the choir, and clerks in the Registrar's office. Not more than two hours a day are required of any student, except in specified cases, and the compensation is made at definite rates. At present about \$6,000 per year is appropriated for service, and employment is given to about eighty students, who receive each amounts varying from \$20 to \$40 a term. The University also coöperates with the Young Men's Christian Association in efforts to secure employment for students from business houses and residents of the city.

The administration of the scholarship system is in the hands of a committee of the Faculty, annually appointed by the Corporation for that purpose. The Dean of the University is the executive of the Committee and is also charged with the administration of the Service system.

Applications for aid for a given academic year should be filed with the Dean before May 1st preceding. Action upon all applications is taken by the committee before July 1st.

Premiums, Prizes and Honors

FOR EXCELLENCE IN PREPARATORY STUDIES

THE PRESIDENT'S PREMIUMS

These are derived from the income of a fund presented to the University in 1843 by President Wayland. They are awarded each year to those members of the Freshman class who upon special examination are found to have attained the highest excellence in the studies required for admission to college in Greek, Latin and French. First and Second Premiums are awarded in each of these studies.

The examinations for the premiums deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Great importance is attached to the pupil's familiarity with the subject-matter of the works read, and to his ability to translate with accuracy and facility into clear, appropriate and idiomatic English.

The examination in Greek occurs on the second Saturday of the first term, that in Latin on the third Wednesday, and that in French on the fourth Wednesday.

The award of these premiums in 1902 was as follows:

GREEK

The First Premium to WALTER EDGAR WOODBURY, instructed in the High School, Nashua, N. H.

A collateral First Premium for an examination of equal merit to BESSIE LENORE ADAMS, instructed in the Classical High School, Providence.

The Second Premium to ELMER DOUGLAS NICKERSON, instructed in the Hope Street High School, Providence.

LATIN

The First Premium to JAMES HENRY HINCHEY, instructed in the B. M. C. Durfee High School, Fall River, Mass.

A collateral First Premium for an examination of equal merit to BESSIE LENORE ADAMS, instructed in the Classical High School, Providence.

The Second Premium to RAY BROWN, instructed in the High School, Quincy, Mass.

FRENCH

The First Premium to LLOYD PETER UPTON, instructed in the High School, Manchester N. H.

A collateral First Premium for an examination of equal merit to HENRIETTA CELIA BRAZEAU, instructed in the High School, Pawtucket.

The Second Premium to ELMER DOUGLAS NICKERSON, instructed in the Hope Street High School, Providence.

THE HARTSHORN PREMIUMS

These are derived from the income of a fund of one thousand dollars, presented to the University in 1872 by Joseph C. Hartshorn, A. M., of the class of 1841. The income furnishes three premiums, which are awarded to those members of the Freshman class who upon examination are found to excel in the mathematical studies required for admission. The examination occurs on the third Saturday of the first term.

The award of these premiums in 1902 was as follows:

The First Premium to HORACE EDWARD CHANDLER, instructed in the High School, Scranton, Pa.

The Second Premium to ELMER DOUGLAS NICKERSON, instructed in the Hope Street High School, Providence.

The Third Premium to RAY BROWN, instructed in the High School, Quincy, Mass.

FOR EXCELLENCE IN COLLEGE STUDIES

THE CARPENTER PRIZES FOR ELOCUTION

These prizes are derived from the income of a fund established in 1867 by Thomas Carpenter and Lydia Carpenter, and are awarded annually to the three members of the Sophomore class to whom are assigned, respectively, the first, the second and the third rank of excellence in elocution. The contest is held in Manning Hall on the Monday evening before Commencement.

The selections declaimed may be either prose or verse. They must be approved by the Professor of Public Speaking, with whom competitors must enter their names not later than the

first day of February. The contest to select the speakers takes place in the latter part of the winter term; all arrangements for it are in the hands of the Professor of Public Speaking.

The Committee of award consists of five members—the Professor of Public Speaking, who is the chairman, two persons elected by the Corporation, and two persons elected by the Sophomore class during the first term of the year. No one who is or has been a member of the class is eligible.

In 1902 the prizes were awarded as follows:

The First Prize to WILLIAM GEORGE HOFFMAN

The Second Prize to ROBERT GRANT MARTIN

The Third Prize to JAMES JOSEPH McKENNA

THE HICKS PRIZES FOR EXCELLENCE IN DEBATE

These prizes are derived from the income of a fund of one thousand dollars presented in 1891 by the Hon. Ratcliffe Hicks of the class of 1864. They are annually awarded to the two members of the Junior class who display the greatest ability in debate. The debate occurs in Manning Hall on the evening before Class Day.

A preliminary contest, for the purpose of selecting the four debaters, is held early in the spring term before a committee appointed by the President of the University.

The Committee of Award in the final contest consists of five persons—two chosen by the President of the University, two by a majority of the debaters, and one by the Faculty. In 1902 the prizes were awarded as follows:

The First Prize to HENRY OTIS GREEN

The Second Prize to GEORGE WATERHOUSE

THE DUNN PREMIUM

The income of a fund of one thousand dollars, presented to the University in 1872 by pupils and friends of the late Professor Robinson Potter Dunn, D. D., is given, at the end of the Junior year, to the student having the highest standing in rhetorical studies, "rhetorical studies" meaning here the courses in

composition and public speaking. The nomination for the premium is made by the officers in these courses, and has regard to the number of studies which the competitors have taken as well as to the rank which they have attained therein.

In 1902 the premium was awarded in equal parts to

REGINALD LANGDON BROWN

and

WILLIAM THOMPSON HASTINGS

THE CARPENTER PREMIUMS

These two premiums, of sixty dollars each, are derived from the income of a fund established in 1867 by Thomas Carpenter and Lydia Carpenter. They are assigned at the end of the Senior year to the two members of the Senior class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life—ability, character and attainment."

In 1902 the premiums were awarded to

GEORGE WEST HATHAWAY

and

WILLIAM ROBERT PARKHOUSE DAVEY

THE HOWELL PREMIUM

This fund, amounting to one thousand dollars, was presented to the University in 1867 by the late Gamaliel Lyman Dwight. The income is given at the close of the second term of the Senior year to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for the premium a student must, each term from the Freshman year to the end of the second term in the Senior year, select at least one of the elective studies offered in Pure or Applied Mathematics.

In 1902 the premium was awarded to

ROBINSON PIERCE, JR.

THE CLASS OF 1873 PRIZE

A fund of one thousand dollars, completed in 1898, has been presented to the University by the class of 1873, on the condition that its income should be used as a prize for an essay. The prize is annually offered for competition to members of the Senior class, the subject, assigned by the department concerned, being of a historical nature one year and of a philosophical nature the next. In 1901-02 the subject was: "The Relations between England and France during the Protectorate of Oliver Cromwell." The prize was awarded to

ANDREW LITTLE FRASER

For 1902-03 there has been assigned a philosophical subject, "The Criterion of Truth."

THE FOSTER PREMIUM IN GREEK

This premium is derived from the income of a fund of three thousand dollars bequeathed to the University in 1880 by the Hon. Lafayette Sabine Foster, LL. D., of the class of 1828. In accordance with the terms of the donor's will the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third and twenty-fourth books of Homer's Iliad or in the Oration on the Crown by Demosthenes."

The next examination, open to the members of the Senior class, will be held early in May, 1903. Candidates will be examined in the Iliad.

On Commencement Day, 1902, the President announced the award of the premium to

EVERETT DUNCAN RAMSDEN

THE LUCIUS LYON PREMIUMS IN LATIN

These are derived from the income of a fund of five thousand dollars presented to the University in 1893 by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the class of

1844. Five-tenths of the income each year forms the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be added to the fund. The premiums are awarded only as the result of a special examination held during the last term of the Senior year, and only for real merit. The examination may relate to the Latin language, Roman literature, Roman history, or partly to one of these subjects and partly to another or to both the others. The President of the University and the head of the Latin department prescribe for admission to the examination such conditions as in their judgment will secure the best results.

In 1902 the premiums were awarded as follows:

The First Premium to CHARLES RAYMOND AUSTIN

The Second Premium to WILLIAM ROBERT PARKHOUSE DAVEY

The Third Premium to EVERETT DUNCAN RAMSDEN

THE WILLIAM GASTON SCHOLARSHIP

This fund of five thousand dollars was established in 1899 by the widow and children of the late Hon. William Gaston of the class of 1840. Its income is awarded annually by the Faculty upon absolute merit, without reference to financial condition.

The awards have been as follows:

1900-01, HARVEY NATHANIEL DAVIS

1901-02, HOWARD JOSEPH WHITE

1902-03, ARTHUR MELVIN WINSLOW

APPOINTMENTS FOR COMMENCEMENT

Every member of the Senior class is allowed to present an oration for Commencement. The oration must be deposited in the Registrar's office by noon of the first Wednesday in April; it must be typewritten and signed with the author's name; it shall not contain more than fifteen hundred words. A committee consisting of the President of the University, the Pro-

fessor of English Literature, the Professor of Rhetoric, the Professor of Public Speaking, and a fifth member chosen each year by the Faculty, select for delivery at Commencement such orations, not exceeding ten in number, as, in view of the thought and composition and the writer's ability to speak, are most worthy. Before the orations are selected the contestants will be given an opportunity to pronounce their orations before the committee. Each accepted oration must be rehearsed at least five times before the Professor of Public Speaking. Before Commencement each speaker is required to hand to the Professor of English Literature a typewritten copy of his oration for preservation in the University Library.

The speakers appointed in 1902 were:

JAMES WILLIAM BARRY
EVERETT JARVIS HORTON
JAMES BANCROFT LITTLEFIELD
RALPH CAMERON THOMPSON

THE GASTON PRIZE MEDAL FOR EXCELLENCE IN ORATORY

A fund of three thousand dollars, established in 1894 as a memorial to the Hon. William Gaston, LL. D., of the class of 1840, annually provides a gold medal bearing the name "William Gaston," to be awarded to that member of the graduating class "who shall write and at Commencement pronounce in English the best oration."

The Committee of Award consists of three persons, not members of the Faculty—one selected by the President of the University, one by the Faculty and one by the contestants. No speaker is permitted to make use of a prompter. The members of the committee take into account thought, composition and delivery.

On Commencement Day, June 18, 1902, the medal was awarded to

JAMES BANCROFT LITTLEFIELD

The Rhode Island Alpha of the Phi Beta Kappa Society

OFFICERS AND COMMITTEES 1902-1903

President

WILLIAM VAIL KELLEN, Ph. D.

Vice-President

Prof. WILLIAM WHITMAN BAILEY, LL. D.

Corresponding Secretary

Prof. WALTER COCHRANE BRONSON, A. M.

Treasurer

ROBERT PERKINS BROWN, A. M.

Committee of Appointment

Prof. WILFRED HAROLD MUNRO, A. M., HON. DAVID SHERMAN BAKER, JR., A. M., HENRY FREDERIC LIPPITT, A. B., HENRY ALLEN WHITMARSH, A. M., M. D., GEORGE WHIPPLE PORTER, A. M., WILLIAM THANE PECK, Sc. D.

Committee of Arrangements

Prof. WALTER GOODNOW EVERETT, Ph. D., Prof. WALTER BALLOU JACOBS, A. M., Prof. JOSEPH NICKERSON ASHTON, A. M.

Auditing Committee

WILLARD BROOKS TANNER, A. M., WALTER JAMES TOWNE, A. M.

The Brown Chapter of the Society of the Sigma Xi

OFFICERS AND COMMITTEE 1902-1903

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Vice-President

Prof. CARL BARUS, Ph. D.

Recording Secretary

Prof. RALPH WINFRED TOWER, A. M.

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Prof. WILLIAM HERBERT KENERSON, M. E.

Treasurer

Prof. OTIS EVERETT RANDALL, Ph. D.

Councillor

Prof. JOHN EDWARD HILL, Sc. M., C. E. M.

Committee on Nominations

Prof. WILLIAM WHITMAN BAILEY, LL. D., Prof. OTIS EVERETT RANDALL,
Ph. D., Prof. WILLIAM HERBERT KENERSON, M. E., Prof. RALPH
WINFRED TOWER, A. M., Prof. CARL BARUS, Ph. D.

Brown University Alumni

THE ASSOCIATED ALUMNI

OFFICERS AND COMMITTEES 1902-1903

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Vice-Presidents

HON. RATCLIFFE HICKS, A. B., New York

HON. JAMES TILLINGHAST, A. B., Providence

Secretary

GEORGE GRAFTON WILSON, Ph. D., Providence

Treasurer

SAMUEL SLATER DURFEE, A. M., Providence

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WALTER BURGESS SMITH, A. B.

WILLIAM EATON FOSTER, Litt. D.

FRANK TOURTELLOT EASTON, A. B.

WALTER JAMES TOWNE, A. M.

HENRY DEXTER SHARPE, A. B.

Advisory Committee

GEORGE GRAFTON WILSON, Ph. D.

EVERETT COLBY, LL. B.

FRANK LINCOLN MORSE, A. M.

WILLIAM HENRY BENNETT, M. D.

WILLIAM BURDICK, A. B.

ALUMNI ASSOCIATIONS

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President, F. H. Williams, '77; *Vice-President*, B. C. Dean, '64; *Secretary*, C. R. Adams, '80; *Treasurer*, G. F. Bean, '81; *Executive Committee*, H. P. Quick, '87; Joseph Walker, '87; E. A. Hicks, '91; H. B. Lang, '96; P. M. White, '95.

PROVIDENCE

President, C. W. Lippitt, '65; *Secretary*, J. T. Blodgett, '80.

NEWPORT

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FALL RIVER

President, E. S. Adams, '79; *Vice-President*, E. B. Durfee, '84; *Secretary*, J. P. Gage, '92; *Treasurer*, J. R. Ferguson, '94; *Executive Committee*, C. W. Connell, '81; C. J. McCreery, '86; G. H. Sweet, '95.

WORCESTER COUNTY

President, E. B. Stoddard, '47; *Clerk and Treasurer*, J. S. Clough, '99; *Executive Committee*, Joseph Jackson, '68; N. A. Tufts, '00; G. A. Gaskill, '98; G. K. Hudson, '96; G. S. Taft, '82.

NEW YORK

President, S. H. Ordway, '80; *Vice-President* J. M. Duane, '72; *Secretary*, Everett Colby, '97; *Treasurer*, W. R. Dorman, '92; *Executive Committee*, Arthur Lincoln, '70; J. R. Beam, '72; N. S. Dike, '85; Gardner Colby, '87; W. A. Jones, '96; J. D. Rockefeller, Jr., '97; R. R. Hunter, '98; C. B. Dana, '99; U. C. Brewer, '99; H. A. Coffin, '01.

CENTRAL NEW YORK

President, F. R. Hazard, '81; *Vice-President*, J. S. Fox, '94; *Secretary and Treasurer*, W. G. Bullard, '92.

PHILADELPHIA

President, F. B. Greene, '72; *First Vice-President*, H. K. Porter, '60; *Second Vice-President*, Jefferson Shiel, '82; *Secretary*, W. H. Bennett, h. '84; *Treasurer*, Frank Mauran, '85; *Executive Committee*, H. P. Dormon, '96; J. B. Porter, '90; P. T. Fort, Ex. '95.

MARYLAND AND DISTRICT OF COLUMBIA

President, John Hay, '58; *Vice-President*, A. M. Quick, '87; *Secretary and Treasurer*, J. H. Olcott, '72; *Executive Committee*, W. H. Hawkes, '67; W. G. Chandler, '78; W. A. Slade, '98.

CLEVELAND

President, J. H. Hoyt, '74; *Vice-President*, E. L. Thurston, '81; *Secretary and Treasurer*, F. P. Whitman, '74; *Executive Committee*, N. S. Calhoun, '79; J. S. Greene, '82; C. G. King, Jr., '84.

CINCINNATI

President, E. W. Coy, '58; *Vice-President*, W. H. Pabodie, '55; *Secretary*, S. W. Smith, Jr., '80.

CHICAGO

President, D. L. Morrill, '80; *Vice-President*, G. A. Bacon, '67; *Secretary and Treasurer*, F. L. Morse, '86.

SIOUX CITY, IOWA

President, E. N. Bucknam, '65; *Vice-President*, J. F. Watts, '95; *Secretary*, H. W. N. Bennett, '97; *Treasurer*, F. W. Mears, '95.

ST. LOUIS

President, D. S. H. Smith, '62; *Secretary*, A. L. Abbott, '80; *Treasurer*, J. B. Edwards, '96.

COLORADO

President, F. E. Brooks, '83; *Treasurer*, S. L. Caldwell, '75; *Secretary*, C. P. Bennett, '79.

CALIFORNIA

President, N. B. Blaisdell, '83; *Secretary*, M. A. Newell, Ex. '84.

PHILLIPINE ISLANDS

Secretary, R. F. Friedel, '01; *Treasurer*, T. H. Kenworthy, '01.

Degrees Conferred in 1902

DEGREES IN COURSE

THE DEGREE OF BACHELOR OF ARTS

ON

MYRON JAY ABBEY
EDWARD KIMBALL ALDRICH, JR.
CHRISTOPHER ASTLE
CHARLES DUKE ATKINS
 with Class of 1899
ERNEST PRESTON BROWN ATWOOD
CHARLES RAYMOND AUSTIN
WILLISTON WRIGHT BARKER
JAMES WILLIAM BARRY
JOHN PALMER BARSTOW
JAMES LEONARD BOOTH
ROBERT LAWTON BOWEN
PAUL BROWN
JAMES CUNLIFFE BULLOCK
GEORGE BURDICK
THOMAS BURGESS
HAROLD GRANVILLE CALDER
DENNIS FRANCIS CAREY
ALFRED GRISWOLD CHAFFEE
THOMAS CARPENTER CHAFFEE
HARRY SMITH CLARK
WILLIAM ROBERT PARKHOUSE
 DAVEY
JAMES MERCER DAVIS
ANTHONY HAMILTON DEXTER
LUCIAN LORIMER DRURY
ANDREW LITTLE FRASER
FREDERICK HENRY GABBI
CRAWFORD RICHMOND GREEN
ALLEN GREENE
FREDERICK WILLIAM GREENE, JR.
HENRY JOSEPH HART
CHARLES RAYMOND HASLAM
WILLIAM AUSTIN HILL
EVERETT JARVIS HORTON

JOSEPH WAITE INCE
EUGENE BAILEY JACKSON
HOWARD HENDERSON KING
RAY FORREST KNOWLTON
HARRY CLIFFORD LEACH
JAMES BANCROFT LITTLEFIELD
WALTER ESTES MACGOWAN
EARL NORTHRUP MANCHESTER
HENRY KNIGHT METCALF
HENRY NATSCH
WESLEY ARTHUR PAIGE
CHARLES ABBOTT PHILLIPS
HALBERT EDMUND PIERCE
ALFRED KNIGHT POTTER
CHARLES ARTHUR POWERS
EVERETT DUNCAN RAMSDEN
CHARLES ADDISON RICHARDSON
 RAY
CHARLES ARNOLD REESE
RUSSELL WILLIAM RICHMOND
WALTER STANLEY SEAMANS, JR.
PHILIP DARRELL SHERMAN
CHARLES PERLEY SMITH
ERWIN KELSEY SMITH
ARTHUR STEERE
CLAUDE EVERETT STEVENS
 with Class of 1901
FRANK CARROLL THOMPSON
 with Class of 1901
OLIVER CLINTON TREES
LENNOX GRESHAM WALLING
WILLARD GARFIELD WARD
FRANK WALTER WHEELER
HOWARD JOSEPH WHITE
EVERETT THOMAS WHITFORD

RUTH STILES ALLEN
 MARY EDNA BUDLONG
 EMMA MAY CAUFIELD
 MAUDE EVELYN CLARKE
 ALICE MAY CUSHING
 NELLIE MAUDE DAUPHINEE
 GRACE DEBORAH GALLUP
 LILLIAN MAY GAMWELL
 EDITH MAY GOFF
 ESTHER DORA GRISWOLD

MARY LOUISE HAYS
 MILLICENT RAWSON LEETE
 KATHARINE FRANCES LITTLEFIELD
 MYRTIS ALIDA MILLIKIN
 DAZA PAGE MOWRY
 MARGUERITE MCLEON REID
 ADA ROGERS
 MARGARET ROYS
 HELEN MACOMBER SHERMAN
 ELLEN SEFTON WATERMAN

THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

ELTON MERVILLE ADYE
 MORRIS EZRA ALLING
 ROBERT JOHN BARKER
 WILLIAM PENN BATES
 EDWARD LEWIS BAYLISS
 ARTHUR BRUCE BENNETT
 WILLIAM CORNELL BLANDING
 HOWARD DENISON BRIGGS
 GONZALO EDWARD BUXTON, JR.
 PHILIP CASWELL
 ROY ELLIOTT CLARK
 with Class of 1901
 ERASTUS WEEDEN CLARKE
 SAMUEL COHEN
 CHARLES BERNARD COPPEN
 ABEL RATHBONE CORBIN
 EDWARD PITTMAN COREY
 WINDSOR PRATT DAGGETT
 WINFIELD HAINES DENNETT
 LEON ARTHUR DRURY
 ARTHUR DEAN DUDLEY
 LELAND LESLIE EATON
 with Class of 1901
 FRANK ERNEST FASH
 ARTHUR SIMEON GAYLORD
 HENRY WILSON GOODRICH
 BRUCE HENRY GREEN
 DAVID CONNOLLY HALL
 with Class of 1901.
 WILLIAM CHOATE HARDY
 GEORGE WEST HATHAWAY

CHARLES HERBERT HOLT
 GEORGE MILO INNIS
 KIRKE PORTER LINCOLN
 JOSEPH FERDINAND MALMSTEAD
 DUNCAN MARTIN LUTHER MCPHAIL
 ELMER DANIEL MESERVE
 LEWIS STANLEY MILNER
 SAMUEL MOFFAT
 ARTHUR EARLE MUNRO
 WALTER ELIJAH NEWCOMB
 LESTER WILLIS NICKERSON
 GEORGE FREDERICK PADDOCK
 HARRY MERTON PAINE
 ALONZO TRUMAN PATTERSON
 LORRAINE TERRY PECK
 WALTER CLARKE PHILLIPS
 ROBINSON PIERCE, JR.
 THOMAS EDMUND BURT POPE
 PRESTON HILL PORCHERON
 LEWIS STILLMAN RECORD
 SIMON HENRY SALOMON
 ALBERT LANGWORTHY SAUNDERS
 ROBERT ORDWAY SMITH
 IRVING SOUTHWORTH
 BRADFORD EARLE STEPHENS
 CHARLES ARTHUR TETRAULT
 RALPH CAMERON THOMPSON
 FREDERICK WHEATON TILLINGHAST
 WALTER HASTINGS WOODS
 LOUIS EVERETT YOUNG

FLORENCE BRANDENBURG

LEILA BELLE CARTER

AMY JENCKES COOK

ELLA FRANCES COREY

LUCY EVANGELINE CYR

with Class of 1901

MAUDE FARNUM

ABBIE SWEETLAND GHODEY

LEONORA HILL

MARY CHILD LEE

ELLA BAXTER McCAFFREY

ALICE MAUD PAUL

GRACE PIERCE

ELLA ARTEMISIA POLLARD

BERTHA NORTHUP SMITH

IDA MAUDE WARREN

MIRIAM EDWINA WITHEE

THE DEGREE OF CIVIL ENGINEER

ON

GEORGE HERBERT GILBERT, Ph. B.

WALTER LESLIE TANDY

WARREN LYLE WILMARTH

THE DEGREE OF BACHELOR OF ARTS

in connection with his class

ON

DUNCAN CLINCH PHILLIPS, of the Class of 1861

DEGREES AFTER EXAMINATION

THE DEGREE OF MASTER OF ARTS

ON

LOUISE STEVENS BARTLETT, A. B.

LESTER WELLS BOARDMAN, A. B.

ADELAIDE KIMBAL BURTON, Ph. B.

ANNE WALCOTT CARPENTER, Ph. B.

FRANKLIN RICHMOND CUSHMAN,
A. B.WILLIAM ROBERT PARKHOUSE
DAVEY

HARVEY NATHANIEL DAVIS, A. B.

CHARLES BORROMEO DUGAN, Ph. B.

VICTOR FRAZEE, A. B.

HENRY JEWETT HALL, A. B.

ALLEN KRAMER KRAUSE, A. B.

CLARENCE BROWN LESTER, A. B.

HAROLD LESTER MADISON, Ph. B.

CLARENCE ELNATHAN NORRIS, A. B.

CHARLES EDWIN PAINE, Ph. B.

HARRY KAY POOLE, Ph. B.

LOUIS ALBERT REESE, Ph. B.

MARY LOUISE ROGERS, A. B.

MARY SPINK, A. B.

MICHAEL XAVIER SULLIVAN, A. B.

ETHEL ELLA TOWER, A. B.

CHARLES SAMPSON TURNER, Ph. B.

EMMA CLIFTON WATT, A. B.

THE DEGREE OF DOCTOR OF PHILOSOPHY

ON

GEORGE ELLETT COGHILL, A. B., Sc. M.

SUBJECT: Neurology, Comparative Anatomy, Physiology.

THESIS: The Cranial Nerves of *Amblystoma Tigrinum*.

MILLETT TAYLOR THOMPSON, A. B., A. M.

SUBJECT: Comparative Anatomy, Physiology.

THESIS: The Metamorphoses of the Hermit Crab.

HONORARY DEGREES

THE DEGREE OF MASTER OF ARTS

ON

DANIEL LARNED DAVIS GRANGER

FREDERICK ROY MARTIN

THE DEGREE OF DOCTOR OF DIVINITY

ON

GEORGE RICE HOVEY

WILLIAM WARREN LANDRUM

EMORY HUNTINGTON PORTER

THE DEGREE OF DOCTOR OF LAWS

ON

WILLIAM WILBERFORCE DOUGLAS

FREDERICK MOTT

Students

GRADUATES

- Ruth Appleton, *Providence*, 209 Angell St.
A. B. (*Brown University*) 1901. Latin, Greek, German. Candidate for A. M.
- James Hope Arthur, Attleboro, Mass.
Ph. B. (*Brown University*) 1897. History. Candidate for A. M.
- Charles Raymond Austin, *Providence*, 27 Halsey St.
A. B. (*Brown University*) 1902. Latin, Greek, English. Candidate for A. M.
- Vahan Simon Babasinian, *Samsoun, Turkey* 100 Battey St.
A. B. (*Anatolia College*) 1895, D. B. (*Hartford Theological Seminary*) 1900.
Chemistry, German. Candidate for A. M.
- William John Ballou, Tougaloo, Miss.
A. B. (*Brown University*) 1897, D. B. (*Hartford Theological Seminary*) 1900.
Instructor in Tougaloo University. Social and Political Science. Candidate
for A. M. in absentia.
- Ernest Warren Barnes, *Tabor, Iowa* 62 George St.
Ph. B. (*Tabor College*) 1901. Comparative Anatomy, Philosophy, Physiology.
Candidate for Ph. D.
- Florence Bartlett, *Providence*, 2 Angell St.
Ph. B. (*Brown University*) 1899. German. Candidate for A. M.
- James Leonard Booth, 36 School St., Pawtucket
A. B. (*Brown University*) 1902. Romance Languages, Education, German.
Candidate for A. M.
- Mary Joy Bourne, Barrington
A. B. (*Vassar College*) 1900. Education, History. Candidate for A. M.
- Francis James Bradley, *North Easton, Mass.* 535 Broadway
A. B. (*Dartmouth College*) 1900, A. M. (*Harvard University*) 1901. Education.
- Frederick Elias Bragdon, Lonsdale
A. B. (*Wesleyan University*) 1891. Education.
- Florence William Burke, *Mittineague, Mass.* 38 Benevolent St.
A. B. (*Brown University*) 1901. Education, Greek, Latin. Candidate for A. M.
- Arthur Deerin Call, Ansonia, Conn.
Ph. B. (*Brown University*) 1896. Social Science, Education. Candidate for
A. M. in absentia.
- Dennis Francis Carey, *Worcester, Mass.* 38 Benevolent St.
A. B. (*Brown University*) 1902. Romance Languages, Political Science.
- Ernest Palmer Carr, 33 Fairview St., Fitchburg, Mass.
A. B. (*Brown University*) 1901. History, English, Philosophy, Education.
Candidate for A. M. in absentia.

- Floyd Levern Carr, *Providence*, 87 Congdon St.
Ph. B. (*Brown University*) 1901. Greek.
- William Emanuel Cederberg, *Providence*, 336 Benefit St.
Sc. B. (*Augustana College*) 1900, Ph. B. (*Yale University*) 1902. Physics, Mathematics.
- Harry Smith Clark, *North Andover, Mass.* 14 George St.
A. B. (*Brown University*) 1902. English. Candidate for A. M.
- Latham Clarke, *West Kingston*, 306 Benefit St.
Sc. B. (*Rhode Island College*) 1902. Chemistry, Bacteriology, Physiology
Candidate for Ph. D.
- Mary Katherine Conyngton, *Providence*, 32 Westminster St.
A. B. (*Wellesley College*) 1894, A. M. (*Wellesley College*) 1899. Social Science.
- Ella Frances Cory, *Providence*, 51 Arch St.
Ph. B. (*Brown University*) 1902. Germanic Languages, English and Romance Languages. Candidate for A. M.
- Clinton Harvey Currier, *Manchester, N. H.* University 17
Ph. B. (*Brown University*) 1898, A. M. 1899. Instructor in Mathematics.
Mathematics, Astronomy. Candidate for Ph. D.
- Franklin Richmond Cushman, *Providence*, 146 Peace St.
A. B. (*Rutgers College*) 1894, A. M. (*Brown University*) 1902. English.
- Caroline Ida Doane, *Charlмонт, Mass.* 193 Point St.
A. B. (*Smith College*) 1892. Chemistry, Physics. Candidate for A. M.
- Norman Armin Dubois, *Fall River, Mass.* Brunonia A
Sc. B. (*Mass. Institute Technology*) 1901. Instructor in Chemistry. Chemistry,
Mathematics, Physics. Candidate for Ph. D.
- Maude Farnum, *Providence*, 112 Bridgham St.
Ph. B. (*Brown University*) 1902. History.
- John Russell Ferguson, *Fall River, Mass.*
A. B. (*Brown University*) 1894. Latin, Education. Candidate for A. M. in
absentia.
- Charles Kenworthy Francis, *Atlanta, Ga.*
Ph. B. (*Brown University*) 1899. Adjunct Professor of Chemistry, Georgia
School of Technology. Chemistry, Social Science. Candidate for A. M. in
absentia.
- Ruth Barker Franklin, 78 Spring St., Newport
A. B. (*Smith College*) 1885, A. M. (*Cornell University*) 1886. Fine Arts.
- Caleb Allen Fuller, *Providence*, 277 Brook St.
Ph. B. (*Brown University*) 1899, A. M. 1900. Bacteriology, Comparative
Anatomy. Candidate for Ph. D.
- Harriet Peirce Fuller, *Providence*, 170 Prospect St.
A. B. (*Boston University*) 1881. Latin, History of Art. Candidate for A. M.
- Lillian May Gamwell, *Providence*, 73 Taber Ave.
A. B. (*Brown University*) 1902. Germanic and Romance Languages, English.
Candidate for A. M.
- Charles Israel Gates, 21 Grove Ave., Westerly
A. B. (*Brown University*) 1899. History, English, Education. Candidate for
A. M. in absentia.

- Frederick William Greene, Jr., *Newport*, Maxcy Hall
A. B. (*Brown University*) 1902. Geology, English, Ethics.
- Emma Helena Gregory, *Providence*, 29 Ann St.
A. B. (*Wellesley College*) 1891, A. M. (*Brown University*) 1901. Latin.
- Esther Dora Griswold, *Kensington, Conn.* 7 Barnes St.
A. B. (*Brown University*) 1902. Education, Latin. Candidate for A. M.
- Thacher Howland Guild, *Providence*, 20 Pitman St.
A. B. (*Brown University*) 1901, A. M. (*Chicago University*) 1902. English.
- Henry Jewett Hall, *Providence*, 43 Benevolent St.
A. B. (*Brown University*) 1900, A. M. 1902. Assistant in Psychological Laboratory. Psychology, Philosophy. Candidate for Ph. D.
- Frank Thurston Hallett, *Providence*, 283 George St.
A. B. (*Brown University*) 1900, A. M. 1901. Instructor in Greek. Greek, Latin. Candidate for Ph. D.
- Charles Raymond Haslam, *Providence*, 29 Helme St.
A. B. (*Brown University*) 1902. Education, History. Candidate for A. M.
- Candace Eveleen Hathaway, 56 Elm St., Westerly
Sc. B. (*Wellesley College*) 1887. English, Education. Candidate for A. M.
- John Calder Hebden, *Providence*, 4 Elton St.
A. B. (*Brown University*) 1885. Chemistry, Physics. Candidate for Ph. D.
- Lenora Hill, *Providence*, 221 Broad St.
Ph. B. (*Brown University*) 1902. German, Philosophy. Candidate for A. M.
- Arthur George Host, *Providence*, 28 Craven St.
A. B. (*Brown University*) 1898. Education, German. Candidate for A. M.
- Alice Merrill Howland, Hope
A. B. (*Vassar College*) 1896. Social Science.
- George Llewellyn Hunt, St. Johnsbury, Vt.
Ph. B. (*Brown University*) 1900. German, Elementary Law. Candidate for A. M. in absentia.
- Constance Hurford Iles, *Providence*, 8 Cushing St.
Litt. B. (*Smith College*) 1895. German, French, Botany. Candidate for A. M.
- Ethel Clare Jameson, East Providence
Ph. B. (*Brown University*) 1898. Education, History, English, French. Candidate for A. M.
- Nels Johnson, Rumford
A. B. (*Brown University*) 1899. German, French, American Literature. Candidate for A. M.
- William Jones, *Worcester, Mass.* 29 Benevolent St.
A. B. (*Brown University*) 1899, A. M. 1900. History, Political Economy. Candidate for Ph. D.
- Allen Kramer Krause, *Lebanon, Penn.* 546 Park Ave., Auburn
A. B. (*Brown University*) 1901, A. M. 1902. Comparative Anatomy, Physics. Candidate for Ph. D.
- Mary Child Lee, *Providence*, 182 Bellevue Ave.
Ph. B. (*Brown University*) 1902. History.

- Mary Beecher Leonard, *Providence*, 156 Broad St.
Ph. B. (*Brown University*) 1899. Education, Comparative Anatomy, Botany.
Candidate for A. M.
- Clarence Brown Lester, *Providence*, 509 Public St.
A. B. (*Brown University*) 1900, A. M. 1902. Social and Political Science,
Political Economy. Candidate for Ph. D.
- Katharine Frances Littlefield, *Providence*, 102 Bowen St.
A. B. (*Brown University*) 1902. Education, Astronomy.
- Russell Crosby Lowell, *Providence*, 167 Ohio Ave.
M. E. (*Brown University*) 1899. English, Elementary Law.
- Katherine Gertrude Lynch, *North Attleboro, Mass.* 64 Allston St.
A. B. (*Smith College*) 1894, A. M. (*Brown University*) 1899. Social Science,
History.
- Walter Estes MacGowan, *Worcester, Mass.* Maxcy 435
A. B. (*Brown University*) 1902. Education, Physics. Candidate for A. M.
- Harold Lester Madison, *East Greenwich*, University 4
Ph. B. (*Brown University*) 1901, A. M. 1902. Comparative Anatomy, Botany.
Candidate for Ph. D.
- Myrtis Alida Millikin, *Providence*, 460 Pine St.
A. B. (*Brown University*) 1902. Social and Political Science, Philosophy.
Candidate for A. M.
- Samuel Moffat, *River Point*, Brunonia 13
Ph. B. (*Brown University*) 1902. History, Romance Languages and German.
- Norman Allen Moss, *Providence* 82 Prospect St.
A. B. (*Brown University*) 1900. Education, English. Candidate for A. M.
- Clarence Elnathan Norris, *Worcester, Mass.* University 59
A. B. (*Brown University*) 1900, A. M. 1902. Instructor in German. Curator
of German Seminary. Germanic Languages, English and Romance Lan-
guages. Candidate for Ph. D.
- James Roberts Decrevi Oldham, Moosup, Conn.
A. B. (*Brown University*) 1897. English Literature, Education. Candidate
for A. M. in absentia.
- Roscoe Milliken Packard, *Atlantic, Mass.* 12 Congdon St.
A. M. (*Western Reserve University*) 1900. Mathematics, Physics, Astronomy.
Candidate for Ph. D.
- Ernest Victor Page, 74 Montello St., West Roxbury, Mass.
A. B. (*Brown University*) 1896. Political Economy, Political Science, Social
Science. Candidate for A. M. in absentia.
- Ernest Trowbridge Paine, *Central Falls*, Hope 18
A. B. (*Brown University*) 1901. Philosophy, Greek. Candidate for A. M.
- George Freeman Parmenter, *Dover, Mass.* 279 George St.
Sc. B. (*Boston University*) 1900. Instructor in Chemistry. Chemistry, Physics,
Physiology. Candidate for Ph. D.
- Eliza Metcalf Peirce, *Providence* 507 Broadway
A. B. (*Smith College*) 1889, A. M. (*Brown University*) 1899. English.
- Fordyce Dexter Perkins, Kennebunkport, Me.
Ph. B. (*Brown University*) 1898. English, Psychology, Education. Candidate
for A. M. in absentia.

- Walter Clarke Phillips, *Lafayette,* Maxcy 435
Ph. B. (*Brown University*) 1902. English and Education. Candidate for A. M.
- Harriet Edith Pierce, *Providence,* 39 Daboll St.
Litt. B. (*Smith College*) 1894. German. Candidate for A. M.
- Ella Artemisia Pollard, Attleboro, Mass.
Ph. B. (*Brown University*) 1902. Romance Languages, English. Candidate for A. M.
- Thomas Edmund Burt Pope, *Providence,* 20 Hawthorne St.
Ph. B. (*Brown University*) 1902. Comparative Anatomy. Candidate for A. M.
- John Joseph Power, Halifax, Nova Scotia
A. B. (*Queen's University*) 1900. Social and Political Science. Candidate for A. M. in absentia.
- Lemuel Charles Raiford, Agricultural College, Miss.
Ph. B. (*Brown University*) 1900. Chemistry, Comparative Anatomy. Candidate for A. M. in absentia.
- Everett Duncan Ramsden, 6 Federal St., Warren
A. B. (*Brown University*) 1902. Education, English, Latin. Candidate for A. M.
- Louis Albert Reese, *Providence,* 306 Benefit St.
Ph. B. (*Ottawa University*) 1900, A. M. (*Brown University*) 1902. History, Economics. Candidate for Ph. D.
- Marguerite McLeon Reid, *Providence,* 321 Blackstone St.
A. B. (*Brown University*) 1902. Spanish.
- Margaret Roys, *Uxbridge, Mass.* 98 Cushing St.
A. B. (*Brown University*) 1902. German, Philosophy, Education. Candidate for A. M.
- Carrie Mae Searle, *Providence,* 129 Lester St.
A. B. (*Boston University*) 1900. Education, German, Comparative Literature. Candidate for A. M.
- Philip Darrell Sherman, 140 Cottage St., Pawtucket
A. B. (*Brown University*) 1902. Instructor in German. German, English. Candidate for A. M.
- Sidney Algernon Sherman, *Providence,* 227 Irving Ave.
A. B. (*Amherst College*) 1885, Ph. D. (*Brown University*) 1900. Social Science.
- George Herbert Sherwood, 77th St. & 8th Ave., New York, N. Y.
A. B. (*Brown University*) 1898, A. M. 1899. Comparative Anatomy, Physiology. Candidate for Ph. D.
- Kentaro Shioi, *Takahashi, Japan* 68 Olney St.
A. B. (*William Jewell College*) 1902. English, German. Candidate for A. M.
- Mary Randall Stark, *Providence,* 41 Chapin Ave.
A. B. (*Brown University*) 1900. Education, English, New Testament Language. Candidate for A. M.
- Michael Xavier Sullivan, *Fall River, Mass.* Brunonia 5
A. B. (*Harvard University*) 1899, A. M. (*Brown University*) 1902. Comparative Anatomy, Chemistry. Candidate for Ph. D.

- Augustus Taber Swift, *Providence*, 46 Rochambeau Ave.
A. B. (*Brown University*) 1889, A. M. 1890, Ph. D. 1896. Elementary Law.
- Edward Everett Thompson, *Fall River, Mass.* University 54
A. B. (*Brown University*) 1899, A. M. 1901. Instructor in German. Germanic Languages, English and Romance Languages. Candidate for Ph. D.
- Ralph Cameron Thompson, *Portland, Me.* Hope 37
Ph. B. (*Brown University*) 1902. Comparative Anatomy and Chemistry. Candidate for A. M.
- Ralph Winfred Tower, *Providence*, 63 Arlington Ave.
A. B. (*Brown University*) 1892, A. M. 1893. Comparative Anatomy, Bacteriology. Candidate for Ph. D.
- Percival Henry Truman, *Providence*, 276 Benefit St.
A. B. (*Williams College*) 1898. History.
- Harriet Barrows Utter, *Providence*, 59 Keene St.
A. B. (*Brown University*) 1899. Education, English. Candidate for A. M.
- Mary Drew Vaughan, *Providence*, 150 Pitman St.
Ph. B. (*Brown University*) 1897. Comparative Anatomy.
- Bessie Clarinda Verder, *Rutland, Vt.*, Wheaton Seminary,
Norton, Mass.
Sc. B. (*Middlebury College*) 1898. Education, Chemistry, Botany. Candidate for A. M.
- Bessie Sarah Warner, *Bristol, Conn.* 50 University Ave.
A. B. (*Smith College*) 1895. English, Philosophy, Latin. Candidate for A. M.
- Ida Maude Warren, *Providence*, 13 Smithfield Ave.
Ph. B. (*Brown University*) 1902. Education, Philosophy. Candidate for A. M.
- Henry Herbert Waterman, *Providence*, 29 Sexton St.
A. B. (*Brown University*) 1896. Education, Latin. Candidate for A. M.
- Clifford Whipple, *Providence*, 82 Prospect St.
Ph. B. (*Brown University*) 1895, A. M. 1896. Elementary Law.
- Everett Thomas Whitford, *Providence*, 3 Sayles Hall
A. B. (*Brown University*) 1902. Biblical Literature, Philosophy. Candidate for A. M.
- Mary Greene Wilbur, *Providence*, 266 Broad St.
Ph. B. (*Brown University*) 1899. German, Romance Languages. Candidate for A. M.
- Ernest Townsend Williamson, *Tuckerton N. J.* 306 Benefit St.
A. B. (*Brown University*) 1901. English, History, Romance Languages. Candidate for A. M.
- Jessie Wilson, Rumford
Ph. B. (*Brown University*) 1898, A. M. 1899. History, Political Economy. Candidate for Ph. D.
- Alfred Robinson Winter, Mansfield, Mass.
Ph. B. (*Brown University*) 1901. Social and Political Science, Philosophy. Candidate for A. M. in absentia.
- Irving Levi Woodman, *Manchester, N. H.* Friends' School
Ph. B. (*Brown University*) 1901. Romance Languages, German.

UNDERGRADUATES

SENIORS—CLASS OF 1903

NAME	RESIDENCE	ROOM
Alexander Hewes Abbott	<i>Watertown, Mass.</i>	Brunonia 1
Robert Aldrich	<i>Providence</i>	Slater 7
Sherman Alden Allen	<i>East Springfield, Pa.</i>	Hope 11
Edgar Louis Ashley	<i>Medfield, Mass.</i>	Maxcy 428
Charles Hervey Bailey	<i>New Rochelle, N. Y.</i>	Slater 20
Percival Rogers Bakeman	<i>Chelsea, Mass.</i>	Hope 5
Harvey Almy Baker	<i>Providence</i>	Slater 10
Louis Foristall Baker	<i>Barrington</i>	Slater 17
Merle Taft Barker	<i>Taunton, Mass.</i>	University 49
Robert Lincoln Barrows	<i>Providence</i>	Hope 40
Thomas Austin Barry	<i>Brockton, Mass.</i>	Hope 9
Charles Franklin Bates	<i>Cattaraugus, N. Y.</i>	29 Benevolent St.
Harry Lothrop Bates	<i>Providence</i>	University 47
Edward Babcock Beam	<i>Paterson, N. J.</i>	University 46
Daniel Everett Bellows	<i>Providence</i>	Hope 27
Frederick Joseph Berth	<i>Providence</i>	University 28
Alfred Varney Blackstone	<i>State Farm, Mass.</i>	Slater 3
Percy Howard Blanding	<i>Providence</i>	Slater 2
Richard Warren Blanding	<i>Providence</i>	Slater 2
Arthur Eugene Brown	<i>Providence</i>	39 Charles Field St.
Howard Earle Brown	<i>West Kingston</i>	Hope 10
Reginald Langdon Brown	<i>Phenix</i>	Hope 47
Thomas Dalton Brown	<i>Boston, Mass.</i>	University 33
John Ervin Bullard	<i>Keene, N. H.</i>	University 52
Clarence Van Reynegom	<i>Bumsted Jersey City, N. J.</i>	Brunonia 10
Elmer Ellsworth Butler	<i>Watertown, Mass.</i>	Hope 16
John Hutchins Cady	<i>Providence</i>	Slater 11
Charles Sturgis Carpenter	<i>Providence</i>	University 19
Clifford Eugene Carr	<i>Providence</i>	87 Congdon St.
Joseph Clarence Cawley	<i>East Providence</i>	East Providence

NAME	RESIDENCE	ROOM
Charles Otis Chase	<i>Haverhill, Mass.</i>	Maxcy 317
James Garfield Clifford	<i>Ware, Mass.</i>	Maxcy 318
Harry Moses Cobb	<i>East Parsonsfield, Me.</i>	Slater 6
Lewis Hartsough Conant	<i>Palmyra, N. Y.</i>	50 Waterman St.
Fred Milton Cook	<i>Reading, Mass.</i>	Maxcy 317
Theodore Arthur Cornell	<i>Providence</i>	123 Thayer St.
Fred Judson Cox	<i>Haverhill, Mass.</i>	Brunonia 1
Azariah Foster Crowell, Jr.	<i>Woods Hole, Mass.</i>	Hope 3
Carl Custer Cutler	<i>Greenville</i>	32 Custom House St.
Arthur Albertus Denico	<i>Narragansett Pier</i>	Hope 10
Frank Lawrence Dillon	<i>Palmer, Mass.</i>	Hope 9
Lester Earl Dodge	<i>Block Island</i>	University 27
Henry Bernardin Drowne	<i>Providence</i>	20 Benefit St.
James Warren Dyson	<i>Providence</i>	Hope 8
Stephen Howard Easton	<i>Central Falls</i>	University 18
Clarence Milton Eddy	<i>Ellwood City, Pa.</i>	Hope 13
George Wilbur Eddy	<i>New Haven, Ct.</i>	Maxcy 434
Frank Henry Ehmke	<i>Silver Creek, N. Y.</i>	29 Benevolent St.
Thomas Albert Fenton	<i>Providence</i>	120 Peace St.
Waldo Henry Fish	<i>Central Falls</i>	Slater 1
Isaac Fleming	<i>Musquodoboit, N. S.</i>	Maxcy 313
Robert Forster	<i>Poughkeepsie, N. Y.</i>	University 10
Gay Nichols Freeman	<i>Washington, D. C.</i>	4 Manning St.
Percy Winchester Gardner	<i>Wakefield</i>	Brunonia 4
James Lawrence Gartland	<i>Warren</i>	Warren
Clarence Curtis Gleason	<i>Lonsdale</i>	Hope 26
Henry Otis Green	<i>Renrock, O.</i>	Hope 15
Howard Bristol Grose, Jr.	<i>Wellesley Hills, Mass.</i>	Slater 17
Philip Bardwell Hadley	<i>Shelburne Falls, Mass.</i>	Hope 16
Willis Warren Harriman	<i>Whitinsville, Mass.</i>	Maxcy 201
William Albion Hart	<i>Concord Junction, Mass.</i>	4 Manning St.
William Thomson Hastings	<i>Feeding Hills, Mass.</i>	Hope 47
Leslie Robert Hicks	<i>Chicago, Ill.</i>	Hope 38
Harrison Bucklin Hill	<i>Rumford</i>	Rumford
Edward Winslow Holmes	<i>New Bedford, Mass.</i>	University 17
Jeremiah Holmes	<i>Mystic, Ct.</i>	University 16

NAME	RESIDENCE	ROOM
Albert Wesley Hopkins	<i>Olneyville</i>	University 13
Nathaniel Orson Howard	<i>Providence</i>	6 West Park St.
Daniel Joseph Hurley	<i>Providence</i>	36 East George St.
Frederic Mason Kinsley	<i>Providence</i>	Hope 41
Alexander Joseph Larkin	<i>Ansonia, Ct.</i>	University 31
William Ross Lawton	<i>Providence</i>	University 30
Harry Gancello Leighton	<i>Lowell, Mass.</i>	Hope 46
Robert Bell Longwell	<i>Reidsburg, Pa.</i>	Hope 31
Charles Anthony McDonald	<i>Providence</i>	Hope 13
Harold Austin Mackinney	<i>Providence</i>	University 25
William Mackintosh Macnair	<i>Mansfield, Mass.</i>	Mansfield
Earle Jerome Mathewson	<i>Central Falls</i>	Central Falls
William Thomas Murphy	<i>Providence</i>	University 28
George Smith Newcombe	<i>Thomaston, Me.</i>	Hope 21
Charles Lemuel Osler	<i>Providence</i>	Hope 27
Fred Alleyne Otis	<i>Providence</i>	University 21
Lionel Henry Peabody, Jr.	<i>Middletown</i>	University 13
Arthur Lloyd Phillbrick	<i>W. Somerville, Mass.</i>	Maxcy 425
Arthur Upham Pope	<i>Newburyport, Mass.</i>	Hope 39
Henry Wallace Pratt	<i>Bridgewater, Mass.</i>	63 Angell St.
James Edward Quinn	<i>Milwaukee, Wis.</i>	Maxcy 208
William Orin Rice	<i>South Gardner, Mass.</i>	University 30
Maurice Benjamin Rich	<i>Providence</i>	University 27
William Lewis Roberts	<i>Goffstown, N. H.</i>	University 18
Harry Westcott Rockwell	<i>Rockwell's Mills, N. Y.</i>	University 48
William Benjamin Satterlee	<i>Poughkeepsie, N. Y.</i>	Slater 7
Arthur Henry Scott	<i>Pawtucket</i>	University 27
Timothy Joseph Sheehan	<i>Fitchburg, Mass.</i>	University 28
James Leonard Sherman 2d	<i>Providence</i>	University 44
Ralph Atherton Sherwood	<i>Providence</i>	324 Laurel Hill Ave.
Lester Burrell Shippee	<i>East Killingly, Ct.</i>	Hope 39
Howard Dexter Smith	<i>North Scituate</i>	157 Lowell Ave.
Tilden Hendricks Stearns	<i>Wilmot, N. H.</i>	Hope 14
Bates Eben Stover	<i>Chicopee, Mass.</i>	University 31
Leslie Hunt Sutherland	<i>Natick, Mass.</i>	University 58

NAME	RESIDENCE	ROOM
Albert William Hayden Thompson	<i>Providence</i>	Maxey 203
Manning Eugene Van Nostrand	<i>Keyport, N. J.</i>	Hope 21
Samuel Leonidas Wade	<i>Bell's Cross Roads, Va.</i>	University 33
George Roberts Walworth	<i>Newton, Mass.</i>	Slater 11
George Waterhouse	<i>Beaufort, S. C.</i>	Hope 38
Allan Ferguson Westcott	<i>Alexandria Bay, N. Y.</i>	Hope 2
Edward Nelson White	<i>Acushnet, Mass.</i>	Hope 22
Henry Wilson White	<i>Providence</i>	Hope 27
Samuel Hall Whitley	<i>Plattsburgh, N. Y.</i>	Hope 42
Arthur Melvin Winslow	<i>Providence</i>	Hope 20
Trueman Doane Woodbury	<i>Bow Mills, N. H.</i>	Hope 34
Francis Elliott Young	<i>Easton, Md.</i>	Hope 45

JUNIORS—CLASS OF 1904

NAME	RESIDENCE	ROOM
Austin Ketcham Allen	<i>Stanfordville, N. Y.</i>	Hope 6
Capwell Allen	<i>Brooklyn, N. Y.</i>	4 Manning St.
Everard Appleton	<i>Providence</i>	209 Angell St.
William Day Appleton	<i>Providence</i>	209 Angell St.
Edmund Kingsley Arnold	<i>Touissett, Mass.</i>	Maxcy 322
Willard Barber Atwell	<i>Hebronville, Mass.</i>	University 26
Clifford Thomas Barber	<i>Arcadia</i>	117 George St.
Irving Judson Beckwith	<i>Oxford, N. Y.</i>	Hope 31
Wallace King Belding	<i>Malone, N. Y.</i>	University 44
Ralph Hervey Bevan	<i>Providence</i>	475 Hope St.
Edward Joseph Black	<i>Providence</i>	16 Tecumseh St.
Otis Edward Bloomquist	<i>Falconer, N. Y.</i>	29 Benevolent St.
Ilsley Boone	<i>Brooklyn, N. Y.</i>	63 Angell St.
Oliver Hilliard Booth	<i>Poughkeepsie, N. Y.</i>	Slater 6
John Rich Bouldry, Jr.	<i>Weymouth, Mass.</i>	University 53
Robert Lawton Bowen, A.B.	<i>Providence</i>	1488 Westminster St.
Henry James Brady	<i>Providence</i>	385 Pine St.
Asa Lloyd Briggs	<i>Ashaway</i>	Slater 12
Herbert Frank Brightman	<i>Fall River, Mass.</i>	Maxcy 322
Morris Brown	<i>Woonsocket</i>	15 Pratt St.
Earl Whitney Browning	<i>Worcester, Mass.</i>	Hope 8
Bertram Clyde Bugbee	<i>Woodstock Valley, Ct.</i>	127 Benefit St.
Bertram Harrington Buxton	<i>Providence</i>	Brunonia 3
Arthur Ewen Cameron	<i>Providence</i>	Maxcy 205
Murray Hubert Cann	<i>Providence</i>	Hope 12
Godfrey Igino Cardellicchio	<i>Providence</i>	138 Messer St.
Charles Dyer Casey	<i>Providence</i>	University 28
William Edson Cheever	<i>Providence</i>	Maxcy 210
Warren Almon Clough	<i>Groton, Mass.</i>	Maxcy 324
Guy Blandin Colburn	<i>Nashua, N. H.</i>	University 18
James Henry Cooper	<i>Monmouth, Ill.</i>	291 Thayer St.
Frederick Aloysius Coughlin	<i>Woonsocket</i>	Woonsocket

NAME	RESIDENCE	ROOM
Foster Barker Davis	<i>Providence</i>	Slater 16
Clarence Washington Dealtry	<i>Bryantville, Mass.</i>	Maxcy 210
Harold Williams Drury	<i>North Swansea, Mass.</i>	University 58
Richard Owen Dummer	<i>Weld, Me.</i>	58 College St.
James Harper Duncan	<i>Haverhill, Mass.</i>	Hope 12
Howard Foss Esten	<i>Pawtucket</i>	Maxcy 202
Louis Edward Feingold	<i>Worcester, Mass.</i>	Maxcy 323
Charles Fowler Fields	<i>Hartford, Ct.</i>	Hope 30
George Blinn Francis, Jr.	<i>New York, N. Y.</i>	Hope 24
Herbert Augustine Freeman	<i>Willimantic, Ct.</i>	Maxcy 433
James Murray Gallison	<i>Franklin, Mass.</i>	Slater 20
Philip Trayne Gleason	<i>Lonsdale</i>	Hope 21
Clifford Moore Granger	<i>Feeding Hills, Mass.</i>	8 Hopkins St.
William Henry Gray	<i>Malone, N. Y.</i>	University 44
Wells Albert Hall	<i>Brockton, Mass.</i>	Hope 26
Harold Robert Hanson	<i>East Providence</i>	Maxcy 319
Wendell Edmund Harlow	<i>Middleboro, Mass.</i>	Hope 33
Howard Farnam Hart	<i>Fayetteville, N. Y.</i>	87 Congdon St.
Charles Shailer Hascall	<i>New York, N. Y.</i>	Maxcy 205
Harry Worthington Hastings	<i>Agawam, Mass.</i>	Hope 23
John Francis Heckman	<i>North Attleboro, Mass.</i>	North Attleboro
John Peabody Herring	<i>East Providence Centre</i>	Hope 31
Fred Alden Hersom	<i>Somersworth, N. H.</i>	87 Congdon St.
Clifton Henry Hobson	<i>Palmer, Mass.</i>	Hope 4
William George Hoffman, Jr.	<i>Providence</i>	Hope 33
George Sanford Holmes	<i>Pawtucket</i>	University 34
Charles Wesley Hunt	<i>No. Charlestown, N. H.</i>	Hope 23
Alfred Elton Isaac	<i>Providence</i>	113 East Manning St.
Royal Nesmith Jessup	<i>Brooklyn, N. Y.</i>	Hope 48
Frederick Clark Jones	<i>Providence</i>	Slater 5
Harold Vincent Joslin	<i>Scranton, Pa.</i>	Brunonia 8
Noble Brandon Judah, Jr.	<i>Chicago, Ill.</i>	Brunonia 8
Llewellyn William Jutten	<i>Fall River, Mass.</i>	Slater 1
George Edward Kelleher	<i>Providence</i>	4 Cypress St.
Herbert Alden Kenyon	<i>Providence</i>	Hope 47
Ralph Arthur Lane	<i>Worcester, Mass.</i>	58 College St.

NAME	RESIDENCE	ROOM
Louis Russell Langworthy	<i>East Providence</i>	East Providence
Alpha Freeman Leonard	<i>Needham, Mass.</i>	Maxcy 432
Edward Joseph McCaffrey	<i>Providence</i>	95 Chatham St.
James Alphonsus McCann	<i>Providence</i>	4 McCann Place
Eugene La Verne McIntyre	<i>Waldo, Wis.</i>	Brunonia 2
James Joseph McKenna	<i>Providence</i>	Maxcy 208
Joseph William Mackenzie	<i>Fall River, Mass.</i>	University 22
Robert Grant Martin	<i>Salem, Mass.</i>	Hope 40
Carlton Howard Maryott	<i>Millbrook, N. Y.</i>	Hope 7
Alfred Fellows Masury	<i>Danvers, Mass.</i>	4 Manning St.
Jacob Alexander Mattuck	<i>Worcester, Mass.</i>	Maxcy 436
Houghton Metcalf	<i>Providence</i>	Slater 4
Allen Webster Milliken	<i>New Bedford, Mass.</i>	University 56
Elisha Capron Mowry	<i>Providence</i>	University 12
Hovsep Caspar Nahigian	<i>Providence</i>	29 Benevolent St.
Christian Augustus Nelson	<i>New Sweden, Me.</i>	1066 Broad St.
Lester Hutchinson Nichols	<i>Bennington, Vt.</i>	Maxcy 321
Frederick William O'Connell	<i>Providence</i>	75 Langdon St.
John Hector Palmer	<i>Portland, Me.</i>	38 Benevolent St.
Arthur Lionel Patch	<i>Stoneham, Mass.</i>	Hope 19
Agide Pirazzini	<i>Providence</i>	332 Academy Ave.
Walter Everett Prince	<i>Worcester, Mass.</i>	Maxcy 323
Bernard Perry Raymond	<i>Winchendon, Mass.</i>	Hope 22
Wilber Tibbetts Reynolds	<i>East Greenwich</i>	Hope 41
Charles Duren Roston	<i>Dorchester, Mass.</i>	209 Williams St.
Louis Earl Rowe	<i>Shawomet Beach</i>	Maxcy 433
Herbert Lee Sackett	<i>Smith's Mills, N. Y.</i>	Hope 1
Lucius Albert Salisbury	<i>Sandy Creek, N. Y.</i>	Maxcy 430
William Sandager	<i>Auburn</i>	Hope 27
Charles Frederic Savage	<i>Chicago, Ill.</i>	Brunonia 2
Berrick Schloss	<i>Pawtucket</i>	University 30
Edwin Garzea Scott	<i>Pawtucket</i>	Hope 38
Eliot Rossiter Scudder	<i>Brockton, Mass.</i>	Slater 18
Harry Smalley	<i>Fall River, Mass.</i>	Maxcy 212
George Lawton Spencer	<i>Providence</i>	Hope 36
John Jay Staley	<i>Warrens, Wis.</i>	Hope 2

NAME	RESIDENCE	ROOM
Albert Hayes Stanton	<i>Ekonk, Ct.</i>	Hope 27
Elmer Tompkins Stevens	<i>Chicago, Ill.</i>	Slater 14
Claude Henry Stockard	<i>Providence</i>	41 Waterman St.
Edward Padelford Taft	<i>Providence</i>	272 Benefit St.
Edwin Judkins Tetlow	<i>Providence</i>	Hope 33
Clarence McGregor Thompson	<i>Hartford, Ct.</i>	Hope 29
Roy Towne	<i>Windham, Ct.</i>	32 Custom House St.
Earl Vanderbilt	<i>Little York, N. J.</i>	194 Vinton St.
John Brown Watson	<i>Tahlequah, I. T.</i>	Hope 45
Albert Benjamin West	<i>Providence</i>	57 Roanoke St.
Walter Bowie Wilbur	<i>Charleston, S. C.</i>	63 Angell St.
Leon Arnold Winslow	<i>Bath. Me.</i>	Maxcy 436
John Freeman Woodman	<i>Manchester, N. H.</i>	29 Benevolent St.
Thomas Joseph Wynne	<i>Warren</i>	Warren
Arthur Lincoln Young	<i>New Dorchester, Mass.</i>	Maxcy 319

SOPHOMORES—CLASS OF 1905

NAME	RESIDENCE	ROOM
Henry Frederick Ahrens	<i>Brooklyn, N. Y.</i>	Hope 35
Frank Taylor Albro	<i>Fall River, Mass.</i>	University 44
Chester Salisbury Allen	<i>Worcester, Mass.</i>	University 50
George Deacon Allison	<i>Brooklyn, N. Y.</i>	Maxcy 316
Harrington Tillinghast	<i>Anthony Drownville</i>	Slater 15
Harold Greene Arnold	<i>Providence</i>	159 Waterman St.
George Sanford Atwood	<i>Newburgh, N. Y.</i>	Hope 4
Willis Frank Avery	<i>Manchester, N. H.</i>	University 52
Joseph Chester Bailey	<i>Providence</i>	University 19
Samuel Newhall Baker	<i>Providence</i>	48 Barnes St.
Walter Howard Barney	<i>Providence</i>	Hope 35
Samuel Teel Bartlett	<i>Davisville</i>	Maxcy 426
Edgar Augustine Beatty	<i>Lovettsville, Va.</i>	Hope 14
Raymond Waring Benson	<i>Vinyard Haven, Mass.</i>	29 Benevolent St.
Leroy Franklin Bliss	<i>Fall River, Mass.</i>	Hope 11
William Mitchel Bottomley	<i>Arlington</i>	Arlington
Frederick Calvin Broomhead	<i>Fall River, Mass.</i>	Maxcy 212
Allyn Larrabee Brown	<i>Norwich, Ct.</i>	Slater 15
Arthur Robert Brown	<i>Hornellsville, N. Y.</i>	87 Congdon St.
George Burroughs Bullock	<i>Providence</i>	28 Pitman St.
Frank Arthur Burr	<i>East Providence</i>	East Providence
Raymond Davis Cady	<i>Providence</i>	Maxcy 324
William Henry Camfield	<i>Providence</i>	Maxcy 319
Ralph William Chandler	<i>Perry, Iowa</i>	Maxcy 204
Harrie Norman Cheney	<i>Providence</i>	308 California Ave.
Paul Franklin Clark	<i>Honolulu, H. I.</i>	Hope 48
Joseph Colter	<i>Suffield, Ct.</i>	8 Hopkins St.
James Henry Connolly	<i>Pawtucket</i>	177 School St., Pawtucket
Frederic Webster Cook	<i>Providence</i>	University 21
Frank Starr Cooke	<i>Providence</i>	Hope 36
William Aloysius Cox	<i>Pawtucket</i>	176 Sterry St., Pawtucket
Judson Adams Crane	<i>Malden, Mass.</i>	Maxcy 324

NAME	RESIDENCE	ROOM
Leonard Wolsey Cronkhite	<i>Newton Centre, Mass.</i>	Hope 38
Earle Bennett Cross	<i>Providence</i>	Maxey 206
Herbert Franklin Davison	<i>Pawtucket</i>	41 Summer St., Pawtucket
Albert Arthur Deal	<i>Rhinebeck, N. Y.</i>	Maxey 316
Charles Henry Douglass	<i>Providence</i>	135 Brook St.
Albert Averill Dowd	<i>Woodbury, Ct.</i>	120 Congdon St.
Ralph Everett Durkee	<i>Worcester, Mass.</i>	Maxey 431
William Young Easterbrooks	<i>Pawtucket</i>	Hope 34
Nicholas Redwood Easton	<i>Pawtucket</i>	162 East Ave., Pawtucket
DeWitt Carl Eggleston	<i>Sound Beach, Ct.</i>	63 Angell St.
Charles William Ehmke	<i>Silver Creek, N. Y.</i>	29 Benevolent St.
Caleb Harris Farnum	<i>Providence</i>	17 Halsey St.
Porter Fearey	<i>South Bethlehem, N. Y.</i>	University 43
John Pierce Filson	<i>Diamond, N. Y.</i>	48 Lloyd Ave.
Fred Haywood Freeman	<i>Sterling, Ct.</i>	22 Halsey St.
George William Frink	<i>Norwich, Ct.</i>	Hope 6
Richard Thomas Garland	<i>Pawtucket</i>	59 Clifford St., Pawtucket
Jesse Madison Gathany	<i>Hallstead, Pa.</i>	Maxey 313
George Adam Gessner	<i>Macomb, Ill.</i>	Brunonia 4
Samuel Carlisle Goodrich	<i>Newburgh, N. Y.</i>	Slater 15
Edwin Sykes Goodwin	<i>Laconia, N. H.</i>	63 Angell St.
Theodore William Gordon	<i>East Providence</i>	Hope 25
Stephen Earl Gratrix	<i>Newport</i>	58 College St.
Chester Carr Greene	<i>Providence</i>	442 Pine St.
Martin Stuart Hall	<i>Alpine, N. Y.</i>	279 George St.
Harry Spear Harding	<i>Stoneham, Mass.</i>	Hope 17
Edward Everett Harkness	<i>Gardner, Mass.</i>	University 30
Theodore Conrad Hascall	<i>New York, N. Y.</i>	Maxey 205
Harry French Hatch	<i>St. Albans, Vt.</i>	Hope 41
Frederick Eugene Hawkins	<i>Providence</i>	Hope 25
Chester LeRoy Hayward	<i>Temple, N. H.</i>	87 Congdon St.
Carl Augustus Hiland	<i>Manchester, N. H.</i>	University 51
Harry Hiram Hinds	<i>St. Albans, Vt.</i>	Hope 7
Benjamin Holland, Jr.	<i>Providence</i>	Hope 19
Clarence Warren Holmes	<i>Landaff, N. H.</i>	120 Congdon St.
Edgar Arnold Hopkins, Jr.	<i>Providence</i>	250 Olney St.

NAME	RESIDENCE	ROOM
Ray Palmer Hovey	<i>Caloosa, Fla.</i>	Maxcy 321
Arthur Allison Howard	<i>Wakefield, Mass.</i>	58 College St.
Frank Gilbert Howard	<i>Arlington</i>	Arlington
Hinson Vernon Howlett	<i>Taunton, Mass.</i>	Maxcy 202
Colgate Hoyt, Jr.	<i>New York, N. Y.</i>	Slater 10
Charles Hadlai Hull	<i>New London, Ct.</i>	Hope 17
Frank Clifton Hulse	<i>Port Jefferson, N. Y.</i>	117 George St.
Stephen Foster Hunt	<i>Providence</i>	Slater 8
Newton Peck Hutchison	<i>Providence</i>	Slater 12
Lucien Stevens Hyde	<i>Whitney's Point, N. Y.</i>	Hope 6
Alfred Wesley Ingalls	<i>Lynn, Mass.</i>	Maxcy 204
Robert Irving Jamieson	<i>Conimicut</i>	28 Westfield St.
Oliver Saunders Jennings	<i>Fall River, Mass.</i>	University 43
Leon Munn Kendall	<i>Fairlee, Vt.</i>	194 Broad St.
Ralph Darling Kettner	<i>Providence</i>	University 18
Charles Harvey Kingman	<i>Jamestown, N. Y.</i>	Hope 8
William John Lamkie	<i>Walpole, N. H.</i>	117 George St.
George Elmer Lamphere	<i>Mystic, Ct.</i>	117 George St.
Arthur Joseph Latham	<i>Edgewood</i>	Maxcy 321
Percy Remington Leete	<i>Pawtucket</i>	University 57
Charles Bainbridge Leland	<i>Clifton Springs, N. Y.</i>	University 45
Ernest Farnum Lewis	<i>Providence</i>	Slater 12
Samuel Everett Lincoln	<i>East Providence</i>	East Providence
Stephen Albert Lowe	<i>New Bedford, Mass.</i>	University 55
Edwin Herbert Lyle	<i>New York, N. Y.</i>	63 Angell St.
Carl Dewing Lytle	<i>No. Brookfield, Mass.</i>	75 Doyle Ave.
Eugene Ambrose McCarthy	<i>Fall River, Mass.</i>	Maxcy 315
John Henry McGough, Jr.	<i>Providence</i>	Hope 9
Edward Francis McKenna	<i>Providence</i>	1686 Westminster St.
Edward Sumner Macomber	<i>North Dartmouth, Mass.</i>	University 55
John Christopher Mahoney	<i>Providence</i>	Maxcy 435
Frank Elliot Marble	<i>Lynn, Mass.</i>	Brunonia 13
Robert Alvin Marble	<i>Worcester, Mass.</i>	University 19
Stephen Waterman Mason	<i>Providence</i>	149 Waterman St.
Arthur Carroll Maxfield	<i>Pittsfield, N. H.</i>	87 Congdon St.
Arthur Palmer May	<i>Somerset, Mass.</i>	68 Olney St.

NAME	RESIDENCE	ROOM
William Granville Meader	<i>Providence</i>	Hope 25
Jacob Cooper Millard	<i>Providence</i>	120 Congdon St.
Charles Stuart Mitchell	<i>Sayreville, N. J.</i>	Hope 13
George Albert Morrell	<i>Lakewood, N. J.</i>	Hope 44
Malcolm Bemis Mower	<i>So. Berwick, Me.</i>	Slater 1
Philip Nanes	<i>New York, N. Y.</i>	337 North Main St.
Harold Charles Newton	<i>Athol, Mass.</i>	38 Benevolent St.
Oliver Perry Newton	<i>Sandy Creek, N. Y.</i>	29 Benevolent St.
Ralph Granville Ostby	<i>Providence</i>	Slater 2
Charles Earle Otis	<i>Providence</i>	University 21
Daniel Willets Overocker	<i>Poughkeepsie, N. Y.</i>	University 10
Sangkyn Pak	<i>Seoul, Korea</i>	279 George St.
John Simmons Palmer	<i>Providence</i>	Slater 12
Harry Maynard Penley	<i>Auburn, Me.</i>	Slater 3
Arthur Niles Potter	<i>Willimantic, Ct.</i>	University 51
Leonidas Pouliot, Jr.	<i>Fall River, Mass.</i>	Maxcy 315
Willard Leslie Pratt	<i>Everett, Mass.</i>	Hope 5
Irving Lanouette Price	<i>Worcester, Mass.</i>	Hope 37
William Alfred Read	<i>So. Hanson, Mass.</i>	Maxcy 210
Albert Charles Richards	<i>Providence</i>	29 Francis St.
Charles Edwin Robinson	<i>New Market, N. H.</i>	223 Ives St.
Charles Lorimer Robinson	<i>Providence</i>	Maxcy 202
Meyer Harold Sackett	<i>Providence</i>	22 Wheaton St.
Fred Schwinn	<i>Newark, N. J.</i>	4 Manning St.
Raymond Wentworth Seamans	<i>North Providence</i>	Maxcy 206
Charles Henry Seddon	<i>Providence</i>	Hope 2
Chester Wilson Smith	<i>Worcester, Mass.</i>	72 College St.
Edward Staples Smith	<i>Crozet, Va.</i>	Maxcy 428
Francis Hervey Smith	<i>Hillsboro Bridge, N. H.</i>	Hope 28
William Arnold Spicer, Jr.	<i>Providence</i>	Slater 13
Howland Sherman Stedman	<i>Newport</i>	University 34
Smith Oliver Steere	<i>Mapleville</i>	61 Portland St.
Frank William Stephens	<i>Hornellsville, N. Y.</i>	87 Congdon St.
Augustus Noble Stonegrave	<i>St. Albans, Vt.</i>	Hope 6
Herbert Jackman Stowell	<i>Berlin, N. H.</i>	Maxcy 211
Harvey Julian Swann	<i>Salem, Mass.</i>	Hope 32

NAME	RESIDENCE	ROOM
Charles Arthur Tarbel	<i>Chicago, Ill.</i>	Slater 17
Francis Taylor, Jr.	<i>Wilmington, Del.</i>	Maxcy 314
John Harrison Thompson	<i>Hartford, Ct.</i>	Hope 29
Arthur Swain Townsend	<i>East Providence</i>	Maxcy 432
Samuel Beedy Trumbull	<i>Lawrence, Mass.</i>	Maxcy 432
Rodney Charles Walker	<i>Ludlow, Vt.</i>	120 Congdon St.
Gene Wilder Ware	<i>Shelburne Falls, Mass.</i>	University 48
Chester Campbell Waters	<i>Providence</i>	Hope 37
Archie Roy Webb	<i>Whitehall, Wis.</i>	Hope 3
Thomas McAlpine Webb	<i>Pettaconsett</i>	Pettaconsett
Charles Albert Weeks	<i>Providence</i>	Hope 22
Paul Weiss	<i>Dolgeville, N. Y.</i>	117 George St.
Elmer Orlando Weld	<i>Mansfield, Mass.</i>	Maxcy 319
Lester Allen Wells	<i>Providence</i>	209 Montgomery Ave.
Carlton Grieves White	<i>Somerville, Mass.</i>	Hope 26
Eugene Merrill Wilson	<i>Mt. Vernon, N. Y.</i>	Hope 15
Basil Boise Wood	<i>Newton Centre, Mass.</i>	Hope 30
Glenn William Woodin	<i>Blodgett's Mills, N. Y.</i>	Hope 1
Ralph Benjamin Woodsum	<i>Exeter, N. H.</i>	University 47
Charles Alexander Zaslavsky	<i>Providence</i>	129 Williams St.

FRESHMEN—CLASS OF 1906

NAME	RESIDENCE	ROOM
Edgar Wallace Akin	<i>Carlisle, Ind.</i>	4 Manning St.
Horace Edward Aldrich	<i>Uxbridge, Mass.</i>	29 Benevolent St.
Stephen Brownell Ames	<i>Providence</i>	Slater 11
Walter Herbert Angell	<i>Pawtuxet</i>	Pawtuxet
George Edward Bailey	<i>Winchendon, Mass.</i>	Hope 42
Myron Leslie Bailey	<i>E. Weymouth, Mass.</i>	University 53
Benjamin Charles Baker	<i>Providence</i>	Slater 10
Ralph Edward Bancroft	<i>Stoneham, Mass.</i>	72 College St.
Harris Merrill Barbour	<i>Wollaston, Mass.</i>	41 Angell St.
John Temple Barnicoat, Jr.	<i>Providence</i>	Hope 34
Albert Francis Bassford	<i>Norristown, Pa.</i>	117 Bridgham St.
Frank Abel Bean	<i>Needham, Mass.</i>	Maxcy 206
Henry Truman Beckwith	<i>Providence</i>	42 College St.
Frederick Reynolds Belding	<i>Malone, N. Y.</i>	University 40
Sidney Raymond Bellows	<i>Conimicut</i>	Conimicut
Charles Barrows Bennett	<i>Brooklyn, N. Y.</i>	243 Pleasant St.
Reinhart William Berthold	<i>Webster, Mass.</i>	64 College St.
Richard Birnie, Jr.	<i>Charleston, S. C.</i>	117 George St.
Gustaf Frederic Theodore Bjerkander	<i>Providence</i>	282 Point St.
Halbert Ambrose Bolt	<i>Cannonsville, N. Y.</i>	87 Congdon St.
Albert Russell Bowen	<i>Ware, Mass.</i>	Warren
Howard Wheaton Brayton	<i>Providence</i>	Hope 46
Harris William Breeden	<i>Laconia, N. H.</i>	Hope 19
John Henry Breslin	<i>Revere, Mass.</i>	University 28
Walter Albert Briggs	<i>Attleboro, Mass.</i>	108 Evergreen St.
Edgar Sheffield Brightman	<i>Provincetown, Mass.</i>	72 College St.
Arthur Courtland Brooks	<i>Friesburg, N. J.</i>	63 Angell St.
Aylsworth Brown	<i>Providence</i>	Slater 11
Ray Brown	<i>Wollaston, Mass.</i>	Hope 4
Leslie Goddard Buck	<i>Cavendish, Vt.</i>	3 De Foe Place
Raymond Gilbert Bugbee	<i>North Attleboro, Mass.</i>	87 Congdon St.
Alexander Manlius Burgess	<i>St. Albans, Vt.</i>	Slater 11

NAME	RESIDENCE	ROOM
William Wilder Burton	<i>Pawtucket</i>	Hope 28
Hayward Murray Butler	<i>Providence</i>	312 Public St.
Francis Mercer Campbell	<i>Providence</i>	Hope 1
Henry Godfrey Carpenter	<i>East Providence</i>	East Providence
Milton Banks Carpenter	<i>Harrison Valley, Pa.</i>	63 Angell St.
Walter Clayton Carpenter	<i>Pawtucket</i> 287 Pawtucket Ave., Pawtucket	
Horace Edward Chandler	<i>Scranton, Pa.</i>	38 Benevolent St.
Charles Raymond Chappell	<i>New London, Ct.</i>	Maxcy 320
George Collins Chase	<i>New London, N. H.</i>	Maxcy 203
Peter Pineo Chase	<i>Hyannis, Mass.</i>	Slater 19
Albert Whitman Claflin	<i>Providence</i>	Hope 35
LeRoy Oakley Clark	<i>Cambridge, Mass.</i>	38 Benevolent St.
John Maurice Clifford	<i>Providence</i>	31 Grape St.
George Timothy Colony	<i>Keene, N. H.</i>	Brunonia 12
Howard Wilbur Congdon	<i>Providence</i>	272 Dudley St.
George Lawrence Conley	<i>Brockton, Mass.</i>	University 60
Jason Osborne Cook	<i>Rumney Depot, N. H.</i>	Hope 28
Gerald Arthur Cooper	<i>Providence</i>	90 Congdon St.
George Bartlett Corcoran	<i>West Springfield, Mass.</i>	66 Meeting St.
Herbert Ellsworth Cory	<i>Providence</i>	51 Arch St.
Henry Kempton Craft	<i>Charleston, S. C.</i>	117 George St.
Elisha Allan Crowell	<i>Woods Hole, Mass.</i>	Hope 3
Hollis Brown Cubberly	<i>South Plainfield, N. J.</i>	63 Angell St.
Frederick Simms Cushing	<i>Taunton, Mass.</i>	Maxcy 429
Lewis Porter Damon	<i>Fall River, Mass.</i>	Maxcy 314
Frank Freeman Davenport	<i>Pomfret, Ct.</i>	38 Benevolent St.
David Davidson	<i>Providence</i>	20 Arch St.
Paul Churchill DeWolf	<i>Newark, N. J.</i>	4 Manning St.
Louis Irving Dexter	<i>Valley Falls</i>	Hope 7
Floyd Smith Doughty	<i>Providence</i>	1201 Broad St.
Arthur Francis Driscoll	<i>North Brookfield, Mass.</i>	66 Meeting St.
William Clark Drohan	<i>Brockton, Mass.</i>	Maxcy 315
John Morton Ferrier	<i>Providence</i>	285 Union Ave.
Robert Franklin Field	<i>Providence</i>	25 Wilson St.
Ross Whittaker Fishburn	<i>Riverhead, N. Y.</i>	University 58
Arthur Leonard Flagg	<i>Woonsocket</i>	Hope 18

NAME	RESIDENCE	ROOM
John Ellsworth Fleming	<i>Chester, Pa.</i>	117 George St.
Alfred Wayland Fletcher	<i>Providence</i>	Hope 13
James Roy Foulder	<i>Salt Point, N. Y.</i>	Slater 4
Arthur Garfield Fowler	<i>Woonsocket</i>	Maxcy 207
Thomas Jefferson Freeman	<i>Providence</i>	287 Washington Ave.
George Reuben Williamson	<i>French Taunton, Mass.</i>	Maxcy 429
Donald Frothingham	<i>Millbridge, Me.</i>	Maxcy 314
Lucian Deane Fuller	<i>Plaistow, N. H.</i>	University 47
Leon Stearns Gay	<i>Cavendish, Vt.</i>	117 George St.
Phillips Standish Gilman	<i>Worcester, Mass.</i>	Maxcy 431
Alexander Graham	<i>Somerville, Mass.</i>	University 25
Frank Ingraham Greene	<i>Newport</i>	University 34
Albert John Hamilton	<i>Milton, Mass.</i>	Hope 4
James Hamilton, Jr.	<i>Howard</i>	Howard
Philip Adams Hanson	<i>Portland, Me.</i>	Hope 37
Gardiner Tufts Hart	<i>Concord Junction, Mass.</i>	4 Manning St.
Robert Earle Hawkins	<i>Attleboro, Mass.</i>	72 College St.
John Joseph Healey	<i>Providence</i>	636 Cranston St.
William Read Hersey	<i>Providence</i>	Hope 46
Prescott Tillinghast Hill	<i>Providence</i>	Hope 36
James Henry Hinchey	<i>Pottersville, Mass.</i>	Pottersville
George Augustine Hines	<i>Oak Lawn</i>	Oak Lawn
Henry Hines	<i>Oak Lawn</i>	Oak Lawn
Henry Ramsden Hobson	<i>Providence</i>	92 Almy St.
Charles Spencer Huff	<i>Little York, N. J.</i>	Maxcy 426
Homer Elijah Hunt	<i>Fairfax, Vt.</i>	117 George St.
William Francis Huntley	<i>Providence</i>	260 Benefit St.
John Edward Hurley	<i>Thorndike, Mass.</i>	University 1
Ernest Leslie Huse	<i>Beverly, Mass.</i>	63 Angell St.
Gabriel Joseph Jackowitz	<i>East Providence</i>	Maxcy 432
Henry Greene Jackson	<i>Providence</i>	10 Young Orchard Ave.
Harold Wells James	<i>Providence</i>	125 Penn St.
John Williams James	<i>Detroit, Mich.</i>	38 Benevolent St.
Charles Henry Jones, Jr.	<i>Wareham, Mass.</i>	East Providence
John Harrison Joyce	<i>Brockton, Mass.</i>	72 College St.
Edwin Ahira Kelley	<i>Fairhaven, Mass.</i>	38 Benevolent St.

NAME	RESIDENCE	ROOM
Harvey McLeod Kelley	<i>Bradford, Mass.</i>	39 Parkis Ave.
William Arthur Kennedy	<i>Providence</i>	31 Forest St.
Alfred Clarke Kenyon	<i>Usquepaugh</i>	Hope 10
Edward Douglass Kilburn	<i>Malone, N. Y.</i>	University 40
Thomas Raymond Kilkenny	<i>Providence</i>	Hope 24
Arthur Caswell King	<i>Taunton, Mass.</i>	Hope 22
Robert Lippitt Knight	<i>Providence</i>	118 Princeton Ave.
George Franklin Krause	<i>Lebanon, Pa.</i>	University 57
Simon Charles Lamport	<i>New York, N. Y.</i>	14 George St.
Philip Eugene Langworthy	<i>East Providence Centre</i>	East Prov. Centre
Ralph Ernest Larry	<i>Providence</i>	Hope 29
Robert Lee Latimer	<i>Montville, Ct.</i>	Maxcy 211
Frederick William Laub	<i>Philadelphia, Pa.</i>	University 1
Frederic Kent Lawrence	<i>Fairhaven, Mass.</i>	Maxcy 202
Harry Cheetham Leech	<i>Providence</i>	84 Dartmouth Ave.
William Taylor Le Valley	<i>Phenix</i>	Hope 43
William Russell Lightbody	<i>Manchester, N. H.</i>	Slater 15
William Le Roy Lillie	<i>Lebanon, Ct.</i>	Maxcy 433
Benjamin Franklin Grosh	<i>Lindemuth Harrisburg, Pa.</i>	117 George St.
Leverett James Luce	<i>Suffield, Ct.</i>	29 Benevolent St.
Charles Adolph Lundell	<i>Providence</i>	University 38
Leigh Lynch, Jr.	<i>Jackson, Mich.</i>	72 College St.
Frank David McIntyre	<i>Waldo, Wis.</i>	Brunonia 2
Francis Maines	<i>Paterson, N. J.</i>	63 Angell St.
Frank Nesler Mandeville	<i>Newark, N. J.</i>	4 Manning St.
Philip Marcus	<i>Providence</i>	337 North Main St.
Thomas Randolph Marshall	<i>Seaville, N. J.</i>	Maxcy 207
Joshua Wilbur Mason	<i>Trenton, N. J.</i>	Hope 43
Paul Matteson	<i>Providence</i>	University 45
John Perkins Mead	<i>East Jaffrey, N. H.</i>	Hope 42
Charles Douglas Mercer	<i>Providence</i>	Slater 6
Walter Percy Meredith	<i>Providence</i>	University 17
Ernest Ephraim Moore	<i>Plymouth, Vt.</i>	3 De Foe Place
Edwin Thaddeus Morris	<i>New York, N. Y.</i>	72 College St.
Wesley Floyd Morse	<i>Keene, N. H.</i>	University 59
Preston Sumner Moulton	<i>Providence</i>	Slater 2

NAME	RESIDENCE	ROOM
Lanning Myers	<i>Canton, N. J.</i>	63 Angell St.
Elmer Douglas Nickerson	<i>Providence</i>	33 Francis St.
Albert Vernon Noble	<i>Providence</i>	38 Benevolent St.
Carl Nathaniel Nutter	<i>Pittsfield, N. H.</i>	87 Congdon St.
John Howard O'Keefe	<i>Taunton, Mass.</i>	Taunton
Frank De Salles O'Reilly	<i>Scranton, Pa.</i>	63 Angell St.
Evan Bucklin Owen	<i>Providence</i>	Slater 6
Edward Joseph Owens	<i>Valley Falls</i>	Hope 7
Edward Carter Palmer	<i>Providence</i>	12 Barnes St.
Eliot Greer Parkhurst	<i>Providence</i>	Slater 16
Harry Ernest Pattee	<i>Bristol, N. H.</i>	Maxcy 203
William Thomas Pearson	<i>Fall River, Mass.</i>	Hope 44
Joseph Bailey Perley	<i>Enfield, N. H.</i>	146 Melrose St.
Arthur Truman Steere	<i>Phetteplace Providence</i>	59 Durfee St.
Robert John Pierce	<i>Fitch, N. Y.</i>	87 Congdon St.
Emery Moulton Porter	<i>Providence</i>	Slater 13
Rhys Powell	<i>Scranton, Pa.</i>	63 Angell St.
Robert Carlisle Powell	<i>Poughkeepsie, N. Y.</i>	Brunonia 3
Clinton Alfred Pray	<i>Brooklyn, Ct.</i>	Hope 25
Thomas Wendell Prestwich	<i>Providence</i>	125 Doyle Ave.
Florence John Price	<i>Providence</i>	Hope 10
Leonard Augustus Prouty	<i>Auburn, Mass.</i>	Hope 46
Oscar William Rackle	<i>Canton, O.</i>	246 Ives St.
Howard Leander Rice	<i>Providence</i>	236 Dudley St.
Clement Richardson	<i>Winchester, Mass.</i>	117 George St.
William Hawley Roberts	<i>Attleboro, Mass.</i>	72 College St.
Louis Rosen	<i>Providence</i>	229 Willard Ave.
Gustavus Adolphus Russ	<i>Norwich, Ct.</i>	Slater 14
Nathan Sackett	<i>Providence</i>	22 Wheaton St.
Joseph Schmidt	<i>Providence</i>	241 Chalkstone Ave.
Philip Hans Shaffner	<i>Chicago, Ill.</i>	4 Manning St.
Mervyn St. Clair Shaw	<i>Amherst, Mass.</i>	4 Manning St.
Francis Henry Sheldon	<i>West Suffield, Ct.</i>	29 Benevolent St.
Charles Sawyer Shinn	<i>Lakehurst, N. J.</i>	87 Congdon St.
George Gershon Shor	<i>Worcester, Mass.</i>	33 Benefit St.
Arthur Henry Slack	<i>East Providence</i>	Riverside

NAME	RESIDENCE	ROOM
William Gould Slocum	<i>Newport</i>	Hope 20
Gilbert Elwood Slone	<i>Foxboro, Mass.</i>	39 Charles Field St.
Clesen Havill Smith	<i>Lancaster, N. H.</i>	University 31
Harris Deming Stone	<i>Auburn</i>	Auburn
Walter Douglas Swaffield	<i>Jersey City, N. J.</i>	Hope 24
Axel Fabian Swanson	<i>Chicago, Ill.</i>	Maxcy 426
Everett Harold Swett	<i>Providence</i>	78 Woodbine St.
Leeson Oren Tarleton	<i>Concord, N. H.</i>	Maxcy 430
George Emory Thurber	<i>Providence</i>	Maxcy 206
Arthur Brintwall Tingley	<i>Providence</i>	Hope 10
Theodore Elliott Tolson	<i>Kent Island, Md.</i>	Hope 43
Howard Melville Tracy	<i>Cortland, N. Y.</i>	Maxcy 427
Richard Dana Tucker	<i>Newburyport, Mass.</i>	Maxcy 320
Lloyd Peter Upton	<i>Manchester, N. H.</i>	University 26
Edwin Raymond Walsh	<i>Providence</i>	293 Prairie Ave.
John Gormley Walsh	<i>Providence</i>	28 Bainbridge Ave.
John Barker Ward, 2d	<i>Middletown</i>	University 13
Joseph Arnold Warren	<i>Providence</i>	180 Medway St.
Arthur William Wathen	<i>Rehoboth, Mass.</i>	Rehoboth
Edward Wilford Weikert	<i>Hauppauge, N. Y.</i>	117 George St.
Thomas Albert Welch	<i>Lynn, Mass.</i>	Brunonia 13
Herbert Comstock Wells	<i>Kingston</i>	Slater 8
Robert Pierce Wetherell	<i>Attleboro, Mass.</i>	108 Evergreen St.
Joseph Lewis Wheeler	<i>Providence</i>	30 Lenox Ave.
Ralph Cahoon Whitenack	<i>Wilmington, Del.</i>	Hope 47
Leffingwell Whiting	<i>Detroit, Mich.</i>	38 Benevolent St.
Albert Everett Whittaker	<i>Central Falls</i>	Hope 41
Byron Whittemore	<i>Pittsfield, N. H.</i>	38 Benevolent St.
William Willett	<i>Needham, Mass.</i>	72 College St.
Clifford Morris Wilson	<i>East Greenwich</i>	Brunonia B
Ellery Lewis Wilson	<i>Rumford</i>	Rumford
William Grant Winsor, Jr.	<i>Brockton, Mass.</i>	University 60
Walter Edgar Woodbury	<i>Nashua, N. H.</i>	29 Benevolent St.
Stephen Edward Wright	<i>Auburn</i>	Auburn

SPECIAL STUDENTS

NAME	RESIDENCE	ROOM
Otto Frederick Ahrens	<i>Brooklyn, N. Y.</i>	Hope 23
William Walter Andrew	<i>Providence</i>	University 34
George Milton Bardsley	<i>Fitchburg, Mass.</i>	Maxcy 434
Philip Eastman Brooks	<i>Dorchester, Mass.</i>	Maxcy 208
William Gaylord Brown	<i>Collinsville, Ct.</i>	Maxcy 427
William Greene Budlong	<i>Providence</i>	39 Ring St.
Adin Mowry Capron	<i>Stillwater</i>	Slater 5
William Francis Carroll	<i>Providence</i>	122 Beacon Ave.
Otis Jameson Case	<i>Poughkeepsie, N. Y.</i>	Brunonia 3
Frank Hammett Childs	<i>New Bedford, Mass.</i>	Slater 3
Herman Nelson Colter	<i>Suffield, Ct.</i>	8 Hopkins St.
Vincent Livingstone Colvin	<i>Riverpoint</i>	Riverpoint
Lawrence Daniel Connolly	<i>Providence</i>	318 Smith St.
Fred Philbrick Curtice	<i>E. Washington, N. H.</i>	39 Charles Field St.
Clinton Viall Dean	<i>Providence</i>	University 19
Roscoe Conkling Dorn	<i>Sloansville, N. Y.</i>	50 Waterman St.
Charles William Douglass	<i>Naugatuck, Ct.</i>	North Attleboro, Mass.
Lionell Elwood Dudley	<i>Mapleton, Me.</i>	345 Hope St.
Hume Elting Flagler	<i>Poughkeepsie, N. Y.</i>	University 12
Kenneth Ripley Forbes	<i>Newton Centre, Mass.</i>	63 Angell St.
Homer Wilson Guernsey	<i>Poughkeepsie, N. Y.</i>	Slater 4
Lewis Frederick Hall	<i>Bridgeport, Ct.</i>	Maxcy 425
Leo Gregory Hana	<i>Providence</i>	133 Elm St.
Russell Howard Handy	<i>Manville</i>	Slater 17
Joseph Leo Harson	<i>Providence</i>	272 Gano St.
Gustav Naphthali Hausmann	<i>Providence</i>	16 Glenham St.
Vincent Charles Hoye	<i>Taunton, Mass.</i>	University 28
Lindsay Peter Hutton	<i>Southington, Ct.</i>	38 Benevolent St.
Frederick William Jones	<i>Providence</i>	160 Prospect St.
Joshua Henry Jones, Jr.	<i>Columbus, O.</i>	Hope 45
James Manning Lent	<i>Winthrop, Mass.</i>	63 Angell St.
Michael Joseph Lynch	<i>Holyoke, Mass.</i>	Maxcy 318

NAME	RESIDENCE	ROOM
Edward Arthur McDonough	<i>Salem, Mass.</i>	University 1
Lawrence Patrick McGovern	<i>Lynn, Mass.</i>	Hope 9
Joseph James Malcom	<i>Pawtucket</i>	30 Potter St., Pawtucket
James M Marble	<i>New York, N. Y.</i>	Brunonia 6
Butler Anderson Mathews	<i>Brooklyn, N. Y.</i>	Hope 36
Robert Wheaton Mawney	<i>Providence</i>	380 Smith St.
Leo Mathias Mulligan	<i>Pawtucket</i>	82 Cole St., Pawtucket
Edward Alfred Murphy	<i>Providence</i>	170 Douglas Ave.
Maurice Louis Murphy	<i>Providence</i>	143 Pavilion Ave.
Stephen Lincoln Newby	<i>Providence</i>	9 Puritan St.
Leonard Edward Norris	<i>Providence</i>	218 Dudley St.
John Ferdinand Oderman	<i>Providence</i>	287 Admiral St.
Harry Edgar Pearsall	<i>Oxford, N. Y.</i>	Brunonia 15
Edwin Roberts Peck	<i>Pittsfield, Mass.</i>	Slater 7
Carroll Winthrop Porter	<i>Providence</i>	246 Adelaide Ave.
Wayne Lawrence Randall	<i>Providence</i>	58 College St.
Anthony Schmidt	<i>Providence</i>	123 Beacon Ave.
Percy Shires	<i>Scranton, Pa.</i>	41 Angell St.
John Christopher Sullivan	<i>Valley Falls</i>	Valley Falls
Matthew Mark Sweeney	<i>Woonsocket</i>	Woonsocket
William Francis Todd	<i>Providence</i>	268 Point St.
Harold Draper Warren	<i>Providence</i>	180 Medway St.
Lucius Albert Whipple	<i>Greenville</i>	Greenville
Frank Bowen Whittemore	<i>Worcester, Mass.</i>	University 19
Hollis Bradford Wilcox	<i>Chicago, Ill.</i>	Brunonia 12
Harry Leighton Williams	<i>Scranton, Pa.</i>	41 Angell St.

THE WOMEN'S COLLEGE

SENIORS—CLASS OF 1903

NAME	RESIDENCE	ROOM
Charlotte Anthony	<i>Drownville</i>	184 Meeting St.
Ruby Marion Atwood	<i>New Boston, N. H.</i>	68 Lloyd Ave.
Jessie May Barbour	<i>Ashton</i>	Ashton
Jane Barclay	<i>Guelph, Ontario</i>	153 Benefit St.
Alice Morse Barrett	<i>Providence</i>	207 Williams St.
Mabel Irene Bartlett	<i>Providence</i>	37 Hudson St.
Anna Burnside	<i>Providence</i>	359 Knight St.
Edna Georgiana Calef	<i>Concord, Mass.</i>	66 Benefit St.
Alice Sheehan Carroll	<i>Providence</i>	131 Tockwotton St.
Annie Frances Cheever	<i>North Attleboro, Mass.</i>	North Attleboro
Annie Mabel Cobb	<i>Attleboro, Mass.</i>	Attleboro,
Lillian Maud Coffin	<i>Providence</i>	Hartford Ave.
Alice Mina Hersey	<i>Dorchester, Mass.</i>	148 Broad St.
Helen Elizabeth Hersey	<i>Dorchester, Mass.</i>	148 Broad St.
Bessie Allen Hood	<i>Providence</i>	7 Parkis Ave.
Grace Fisher Leonard	<i>Providence</i>	156 Broad St.
Bessie Alberta Loud	<i>Providence</i>	4 Wesleyan Ave.
Hester Jane Mercer	<i>Willimantic, Ct.</i>	66 Benefit St.
Mary Elizabeth Mercer	<i>Willimantic, Ct.</i>	66 Benefit St.
Ethel May Munro	<i>Bristol</i>	Bristol
Ethel Ella Rich	<i>Providence</i>	375 Blackstone St.
Lillie Leonaretta Scholfield	<i>Providence</i>	49 Beacon Ave.
Helen Sherman Sheldon	<i>Providence</i>	1158 Westminster St.
Alma Stockard	<i>Providence</i>	41 Waterman St.
Geraldine Ethelwyn Street	<i>Cranston</i>	Cranston
Helen Wakely Traver	<i>West Hartford, Ct.</i>	42 Arch St.
Ida Lewis Wheawill	<i>Auburn</i>	33 Waterman Ave.
Helen Whitmarsh	<i>Providence</i>	42 Arch St.
Edith Field Wilcox	<i>Providence</i>	41 Medway St.

JUNIORS—CLASS OF 1904

NAME	RESIDENCE	ROOM
Edith Violet Aldrich	<i>Auburn</i>	33 Blackamore Ave., Auburn
Laura Frances Baker	<i>East Brewster, Mass.</i>	168 Williams St.
Lena Belle Baker	<i>East Brewster, Mass.</i>	168 Williams St.
Florence Butler Beitenman	<i>Baumstown, Pa.</i>	84 Comstock Ave.
Laura Brooks	<i>East Providence</i>	East Providence
Eliza Ethel Bruce	<i>Bath, Me.</i>	19 Champlin Place
Harriet Louise Campbell	<i>Centredale</i>	Centredale
Agnes Alice Cawley	<i>East Providence</i>	East Providence
Annie Louise Conley	<i>Woonsocket</i>	236 North Main St.
Flora Melville Cotton	<i>Providence</i>	16 Humboldt Ave.
Alice Marion Crosby	<i>Matteawan, N. Y.</i>	66 Benefit St.
Lottie May Devlin	<i>Pawtucket</i>	85 Beechwood Ave., Pawtucket
Annie Fisher	<i>Providence</i>	587 Academy Ave.
Hannah Heaton	<i>Brunswick, Me.</i>	66 Benefit St.
Linda May Lowell	<i>Providence</i>	167 Ohio Ave.
Theresa Rachel McKenna	<i>Providence</i>	39 Bainbridge Ave.
Nora Loretta Maguire	<i>Providence</i>	79 Andem St.
Annette Walker Milligan	<i>Saylesville</i>	Saylesville
Mary Ellen Oslin	<i>Providence</i>	241 Amherst St.
Sara De Veaux Packard	<i>Providence</i>	425 Angell St.
Vera Rector	<i>Pawtucket</i>	1 Brook St., Pawtucket
Inez Vernon Sayer	<i>Providence</i>	988 Smith St.
Marjorie Wadsworth Shaw	<i>Oak Lawn</i>	Oak Lawn
Marion Lydia Shorey	<i>Albion, Me.</i>	68 Lloyd Ave.
Eleanor Stark	<i>Providence</i>	41 Chapin Ave.
Mae Stenhouse	<i>Pawtucket</i>	313 High St., Pawtucket
Elsie Marion Straffin	<i>Brockton, Mass.</i>	66 Benefit St.
Sarah Ellen Taylor	<i>Methuen, Mass.</i>	129 Oxford St.
Edith Marion Tillinghast	<i>Providence</i>	129 Oxford St.
Georgia Louise Towle	<i>Providence</i>	47 Camp St.

SOPHOMORES—CLASS OF 1905

NAME	RESIDENCE	ROOM
Josephine Stedman Armstrong	<i>Worcester, Mass.</i>	66 Benefit St.
Mary Elizabeth Bannan	<i>Providence</i>	311 Prairie Ave.

NAME	RESIDENCE	ROOM
Marion Hamilton Bonn	<i>Providence</i>	8 Spencer St.
Amey Ethel Boss	<i>Pawtucket</i>	9 George St., Pawtucket
Edith Anne Brown	<i>Taunton, Mass.</i>	66 Benefit St.,
Isabel Marion Brownson	<i>Providence</i>	342 Plain St.
Bertha Augusta Buffinton	<i>Providence</i>	463 Broadway
Sarah Kempton Cady	<i>Providence</i>	382 Blackstone St.
Letitia Mabel Cahoon	<i>Providence</i>	92 Wesleyan Ave.
Frances Ross Cameron	<i>Providence</i>	487 Hope St.
Millie Dimond Church	<i>Bristol</i>	Bristol
Bertha Louise Clark	<i>Chester, Ct.</i>	87 Benefit St.
Clara Louise Cooke	<i>Providence</i>	18 Maple St.
Eliza Jennetta Delaney	<i>Providence</i>	359 Brook St.
Mary Ida Delaney	<i>Providence</i>	359 Brook St.
Florence Ellsworth Doane	<i>Providence</i>	9 John St.
Olive Bowers Eddy	<i>Providence</i>	250 Lockwood St.
Lillian Lemira Fairbanks	<i>West Millbury, Mass.</i>	250 Charles St.
Anna Leah Fox	<i>Fall River, Mass.</i>	20 Wheaton St.
Mary Louise Gay	<i>Attleboro, Mass.</i>	Attleboro
Alida May Green	<i>Hornellsville, N. Y.</i>	87 Congdon St.
Bessie Maura Henehan	<i>Providence</i>	9 Harriet St.
Louisa Roberta Holt	<i>Pawtucket</i>	11 Hayward St., Pawtucket
Roberta Alice Horton	<i>Pawtucket</i>	265 Prospect St., Pawtucket
Leslie Broadbent Joslin	<i>Attleboro, Mass.</i>	Attleboro
Harriet Gertrude Lane	<i>Providence</i>	26 Irving Ave.
Marie Louise Laviolette	<i>Woonsocket</i>	47 Greene St.
Bessie Madeline Leahy	<i>Pawtucket</i>	50 Clay St., Pawtucket
Alice Joseph Macomber	<i>Attleboro</i>	Attleboro
Alice Howard Manchester	<i>Providence</i>	562 North Main St.
Susan Annie May	<i>Goulds</i>	130 Quarry St., East Providence
Marion Midgley	<i>Providence</i>	177 Progress St.
Elizabeth Perry	<i>Apponaug</i>	98 Cushing St.
Jennie May Perry	<i>Pawtucket</i>	19 Kossuth St., Pawtucket
Ethel Tremain Robinson	<i>Providence</i>	128 Dodge St.
Sarah Gridley Ross	<i>Cortland, N. Y.</i>	87 Benefit St.
Lulu Winifred Simpson	<i>Turtle Point, Pa.</i>	87 Benefit St.
Alice Whitall Travor	<i>West Hartford, Ct.</i>	42 Arch St.

NAME	RESIDENCE	ROOM
Louise Whitcher	<i>Providence</i>	57 Gordon Ave.
Cora Horton Whittaker	<i>Seekonk, Mass.</i>	Seekonk
Inez Kelley Whittemore	<i>Providence</i>	87 Willow St.
Clara Virginia Whiting	<i>Providence</i>	86 Wendell St.

FRESHMEN—CLASS OF 1906

NAME	RESIDENCE	ROOM
Bessie Lenore Adams	<i>Riverpoint</i>	Riverpoint
Helen Barrows Albro	<i>Newport</i>	98 Cushing St.
Alice Appleton	<i>Providence</i>	209 Angell St.
Harriet Louise Ash	<i>Providence</i>	70 Carrington Ave.
Mabel Corinne Ashworth	<i>Auburn</i>	Auburn
Marion Chase Austin	<i>Niantic</i>	102 Cranston St.
Rose Beatrice Bachrach	<i>Providence</i>	17 Smith St.
Helen Mellen Banning	<i>Walpole, N. H.</i>	66 Benefit St.
Edith Agnes Barr	<i>Worcester, Mass.</i>	53 Woodbine St.
Stella Hathaway Baylies	<i>Fall River, Mass.</i>	98 Cushing St.
Henrietta Celia Brazeau	<i>Pawtucket</i>	310 West Ave., Pawtucket
Mary Agnes Doyle Brennan	<i>Providence</i>	81 Hope St.
Cora Severy Burrill	<i>Pawtuxet Neck</i>	Pawtuxet Neck
Elizabeth Clark Butterworth	<i>Fall River, Mass.</i>	98 Cushing St.
Edith Elizabeth Chaffee	<i>East Providence</i>	38 Russell Ave.
Winifred Florence Chase	<i>Providence</i>	512 Pine St.
Alleyne Clark	<i>Castleton, Vt.</i>	66 Benefit St.
Marion Shirley Cole	<i>Bristol</i>	Bristol
Hope Davis	<i>Providence</i>	64 Keene St.
Ursula Hope Devenish	<i>Providence</i>	90 Davis St.
Cora Louise Drake	<i>Auburn</i>	Auburn
Grace Ide Fairchild	<i>Providence</i>	102 So. Angell St.
Florence Ione Gorham	<i>White Plains, N. Y.</i>	66 Benefit St.
Bessie Ballard Grammont	<i>Providence</i>	21 Arch St.
Linda Lawton Haight	<i>Warren</i>	Warren
Ida Frances Herrmann	<i>Bristol</i>	Bristol
Alice Frances Higbee	<i>Newport</i>	98 Cushing St.
Judith Barber Hopkins	<i>Putnam, Ct.</i>	66 Benefit St.

NAME	RESIDENCE	ROOM
Helma Augusta Johnson	<i>Rumford</i>	Rumford
Myra Alice Kimball	<i>Providence</i>	176 Smith St.
Florence May Leighton	<i>Laconia, N. H.</i>	26 Jenks St.
Annie Elizabeth McAllister	<i>Central Falls</i>	Central Falls
Katherine Veronica McNanley	<i>Providence</i>	54 Sutton St.
Edith Arline Nichols	<i>Pawtucket</i>	101 Broadway, Pawtucket
Ethelwyn Chaffee Phillips	<i>Providence</i>	345 Potter Ave.
Elva Elizabeth Phillips	<i>So. Framingham, Mass.</i>	66 Benefit St.
Bertha Elizabeth Piggott	<i>New Bedford, Mass.</i>	Kettle Point
Grace Redford	<i>Pawtucket</i>	44 Highland St., Pawtucket
Lillian Hope Robinson	<i>Pawtucket</i>	73 Cedar St., Pawtucket
Ida Lawrence Rollins	<i>Providence</i>	138 Sutton St.
Laura Richards Sherman	<i>Providence</i>	62 Vernon St.
Grace Mabel Sherwood	<i>Providence</i>	324 Laurel Hill Ave.
Grace Susan Stevens	<i>Williamstown, Mass.</i>	66 Benefit St.
Alice Sundberg	<i>Rumford</i>	Rumford
Ethel Brown Thornton	<i>Providence</i>	164 Pond St.
Alice Carlotta Tillinghast	<i>Natick</i>	Natick
Ethel May Washburn	<i>Central Falls</i>	Central Falls
Maude Evelyn Whipple	<i>Auburn</i>	Auburn
Claudia Camilla Wilbur	<i>Providence</i>	18 Baxter St.

SPECIAL STUDENTS

NAME	RESIDENCE	ROOM
Marian Frederika Bonner	<i>Providence</i>	102 Williams St.
Madeline Genevieve Cass	<i>Woonsocket</i>	68 Church St., Woonsocket
Margaret Lillie Chace	<i>Providence</i>	324 Angell St.
Ethel Congdon Colley	<i>Providence</i>	312 California Ave.
Laura Elizabeth Cooke	<i>Providence</i>	18 Maple St.
Susanna Young Cushing	<i>Providence</i>	58 Olive St.
Bertha Mabel Dean	<i>Providence</i>	31 Daboll St.
Elizabeth Alexandra Durgan	<i>Oplika, Ala.</i>	20 Olive St.
Mabel Anstice Gannett	<i>Providence</i>	43 Chapin Ave.
Jessy H Benedict Gessner	<i>Providence</i>	86 Aborn St.
Marion Brooks Gould	<i>Providence</i>	45 Charles Field St.

NAME	RESIDENCE	ROOM
Edith Gray	<i>Providence</i>	52 Larch St.
Mary Elizabeth Halcrow	<i>Providence</i>	104 Somerset St.
Ruth Louise Handy	<i>Manville</i>	66 Benefit St.
Charlotte May Huntoon	<i>Baldwinsville, N. Y.</i>	68 Lloyd Ave.
Ida Anna Morgan	<i>East Providence</i>	East Providence
Mabel Cornelia Moulton	<i>Providence</i>	327 Elmwood Ave.
Bertha Mabel Nason	<i>Georgiaville</i>	Georgiaville
Alice Emma Parkinson	<i>Providence</i>	25 Whitmarsh St.
Florence Carrie Reynolds	<i>Greenfield, N. H.</i>	26 Jenks St.
Elizabeth Leigh Richards	<i>Providence</i>	169 Power St.
Mary Vevers Scott	<i>Providence</i>	435 Angell St.
Carrie Etta Small	<i>Providence</i>	50 Montague St.
Georgianna Smith	<i>Providence</i>	109 Massachusetts Ave.
Margaret Proctor Wood	<i>Danvers, Mass.</i>	161 Bowen St.

SUMMARY OF THE WOMEN'S COLLEGE

Seniors	29
Juniors... ..	30
Sophomores	42
Freshmen.....	49
Special Students	25
Total.....	175

SUMMARY OF THE WOMEN'S COLLEGE BY RESIDENCE

Rhode Island.....	129
Massachusetts	24
Connecticut.	6
New York.	5
New Hampshire.	4
Maine.....	3
Pennsylvania.....	2
Alabama	1
Ontario.....	1
Total.....	175

GENERAL SUMMARY

Graduates	105
Seniors..	113
Juniors.	119
Sophomores.	160
Freshmen.....	210
Special Students.....	58
Women's College.....	175
Total.....	940

GENERAL SUMMARY BY RESIDENCE

Rhode Island.....	463	Delaware..	2
Massachusetts.	205	Iowa	2
New York.	73	Maryland	2
Connecticut.	43	Mississippi	2
New Hampshire.	41	Alabama.	1
New Jersey.	19	District of Columbia.	1
Pennsylvania	18	Florida	1
Maine	16	Georgia.	1
Vermont	15	Hawaii	1
Illinois	9	Indian Territory.	1
Wisconsin	5	Indiana.....	1
South Carolina	4	Korea	1
Michigan.....	3	Nova Scotia.....	2
Ohio	3	Ontario.	1
Virginia	3	Turkey	1
Total.....			940

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